

# BAECO 301 PUBLIC FINANCE AND STATISTICS-I



BA (ECONOMICS)
5th SEMESTER

Rajiv Gandhi University

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# **PUBLIC FINANCE AND STATISTICS - I**

BA [Economics]
Fifth Semester
BAECO-301



Arunachal Pradesh, INDIA - 791112

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# **Authors**

H. L. Bhatia

M. C. Vaish

J. S. Chandan

C. B. Gupta Vijay Gupta

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# **About the University**

Rajiv Gandhi University (formerly Arunachal University) is a premier institution for higher education in the state of Arunachal Pradesh and has completed twenty-five years of its existence. Late Smt. Indira Gandhi, the then Prime Minister of India, laid the foundation stone of the university on 4th February, 1984 at Rono Hills, where thepresent campus is located.

Ever since its inception, the university has been trying to achieve excellence and fulfill the objectives as a senvisaged in the University Act. The university received academic recognition under Section 2(f) from the University Grants Commission on 28th March, 1985 and started functioning from 1st April, 1985. It got financial recognition under section 12-B of the UGC on 25th March, 1994. Since then Rajiv Gandhi University, (then Arunachal University) has carved a niche for itself in the educational scenario of the country following its selection as a University with potential for excellence by a high-level expert committee of the University Grants Commission from among universities in India.

The University was converted into a Central University with effect from 9th April, 2007 as per notification of the Ministry of Human Resource Development, Government of India.

The University is located atop Rono Hills on a picturesque tableland of 302 acres overlooking the river Dikrong. It is 6.5 km from the National Highway 52-A and 25 km from Itanagar, the State capital. The campusis linked with the National Highway by the Dikrong bridge.

The teaching and research programmes of the University are designed with a view to play a positive role in the socio-economic and cultural development of the State. The University offers Undergraduate, Postgraduate, M.Phil and Ph.D. programmes. The Department of Education also offers the B.Ed. programme.

There are fifteen colleges affiliated to the University. The University has been extending educational facilities to students from the neighbouring states, particularly Assam. The strength of students in different departments of the University and in affiliated colleges has been steadily increasing.

The faculty members have been actively engaged in research activities with financial support from UGC and other funding agencies. Since inception, a number of proposals on research projects have been sanctioned by various funding agencies to the University. Various departments have organized numerous seminars, workshopsand conferences. Many faculty members have participated in national and international conferences and seminars held within the country and abroad. Eminent scholars and distinguished personalities have visited the University and delivered lectures on various disciplines.

The academic year 2000-2001 was a year of consolidation for the University. The switch over from the annual to the semester system took off smoothly and the performance of the students registered a marked improvement. Various syllabi designed by Boards of Post-graduate Studies (BPGS) have been implemented. VSAT facility installed by the ERNET India, New Delhi under the UGC-Infonet program, provides Internet access.

In spite of infrastructural constraints, the University has been maintaining its academic excellence. The University has strictly adhered to the academic calendar, conducted the examinations and declared the results on time. The students from the University have found placements not only in State and Central Government Services, but also in various institutions, industries and organizations. Many students have emerged successful in the National Eligibility Test (NET).

Since inception, the University has made significant progress in teaching, research, innovations in curriculum development and developing infrastructure.

# SYLLABI-BOOK MAPPING TABLE

# **Economic Theory - I**

Syllabi Mapping in Book

Unit I: Public finance

Unit I: Public finance

Meaning of Public finance: differences between public and private Finance

Unit II: Type of Goods

Public Goods, Private Goods, Mixed Goods and Merit Unit II: Type of Goods

Goods; Dalton's Maximum Social Advantage.

Unit III: Public Expenditure
Unit III: Public Expenditure

Growth of Public Expenditure: Wagner's Hypothesis; Canons of Public Expenditure; Effects of Public Expenditure

on production and distribution of income.

Unit IV: Public Revenue Unit IV: Public Revenue

Sources of Public revenue: tax and non-tax, direct and indirect taxes, canons of

Taxation; Ability to pay and benefit approach of taxation;

effects of Taxation on

production and distribution.

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# INTRODUCTION

Public finance studies the role of the government in the economy. It is the definitive branch of Economics which assesses the government revenue and government expenditure of the public authorities and the adjustment of one or the other to achieve desirable effects and avoid undesirable ones. Public finance is a subject which has the distinction of intimate interaction between theory and practice. As such it acquires a meaning and usefulness only in the context of institutional framework of the economy with reference to which it is being studied. The theoretical concepts and policy applications in public finance feed upon and grow out of each other. No single theoretical model can adequately fit in the framework of every economy since its institutional framework is a thing unique to itself. It is important, therefore, that the discussion of public finance should be in the context of a single economy.

Recent years have witnessed a heated debate on several theoretical and policy issues covering several segments of public finance, including the role of fiscal policy. Pleas are being made for a thorough restructuring of its various theoretical and policy premises and the framework within which these should be conducted. Exponential growth and transformation in global financial system and worldwide meltdown caused by it have fuelled rethinking on the role of fiscal policy with a special focus on economic stability and growth—both in developed and developing countries. India, like the rest of the world, has also been deeply affected by these developments.

Statistics is considered a mathematical science pertaining to the collection, analysis, interpretation or explanation and presentation of data. Statistical analysis is very important for taking decisions and is widely used by academic institutions, natural and social sciences departments, governments and business organizations. The subject of statistics deals primarily with numerical data gathered from surveys or collected using various statistical methods. Its objective is to summarize such data, so that the summary gives us a good indication about some characteristics of a population or phenomenon that we wish to study. To ensure that our conclusions are meaningful, it is necessary to subject our data to scientific analyses so that rational decisions can be made. Hence, the field of statistics is concerned with proper collection of data, organizing this data into manageable and presentable form, analysing and interpreting the data into conclusion for useful purposes.

This book, Public Finance and Statistics, has been written in the Self-Instructional Mode (SIM) wherein each unit begins with an 'Introduction' to the topic followed by an outline of the 'Unit Objectives'. The detailed content is then presented in a simple and an organized manner, interspersed with 'Check Your Progress' questions to test the understanding of the students. A 'Summary' along with a list of 'Key Terms' and a set of 'Questions and Exercises' is also provided at the end of each unit for effective recapitulation.

# UNIT 1 PUBLIC FINANCE

#### Structure

- 1.0 Introduction
- 1.1 Unit Objectives
- 1.2 Meaning of Public Finance
- 1.3 Differences between Public and Private Finance
  - 1.3.1 Public Goods and Private Goods
- 1.4 Dalton's Maximum Social Advantage
- 1.5 Summary
- 1.6 Key Terms
- 1.7 Answers to 'Check Your Progress'
- 1.8 Questions and Exercises
- 1.9 Further Reading

# 1.0 INTRODUCTION

Public finance is the branch of economics which deals with the income and expenditure of the government of a country. It performs various functions like revenue raising, financial administration and financial control. It tries to protect the society against internal disruption and foreign aggression and brings together the various constituents of the public finance market. The constituents could be financiers, consultants and research professionals. In this unit, you will study about the meaning of public finance, difference between public and private finance, Keynes theory of public finance and Dalton's maximum social advantage.

# 1.1 UNIT OBJECTIVES

After going through this unit, you will be able to:

- Interpret the meaning of public finance
- Differentiate between public and private finance
- Define public and private goods
- Explain Dalton's maximum social advantage

# 1.2 MEANING OF PUBLIC FINANCE

The main difference between public and private goods as well as the concept of the public sector leads us to explore the vast field of public finance. Public finance is clearly related to the financing of State activities, and can be defined as a subject that discusses the financial operations of the public treasury of a nation. Earlier, writers on the subject defined public finance in a much narrower context than the writers of today. Public finance helps us study the financial aspects of the government. It helps us study the government policy, especially the expenditure and tax policy, which impacts the economy and the welfare of the country's citizens.

#### Nature of Public Finance

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To understand the meaning of public finance, it is first important to understand the meaning of the words 'public' and 'finance'. The word 'public' stands for a collection of individuals, whereas the word 'finance' means money resources or revenues. Therefore, 'public finance' means the resources of a public body.

Boundaries of the subject of public finance have undergone repeated revisions in line with developments in State activities and corresponding economic philosophy. Accordingly, over the years, the definition of public finance has expanded to cover everwidening areas. In the early days of capitalism, it was widely believed that the private sector was always more efficient than the public sector. It, therefore, provided a theoretical basis for laissez-faire (doctrine of individualism). By implication, almost all economic decisions were to be guided by the market forces of demand and supply. The role of the government was not to interfere with the working of market forces but to limit its own activities to the barest minimum, including the following:

- Protecting the society against internal disruption, and ensuring that effective law and order situation prevailed. For this, the State was to maintain itself and create the needed administrative, judicial and police set-ups.
- Protecting the society against any foreign aggression that might take place.
   The State was to maintain armed forces to meet this objective.
- Stepping forth and assuming the responsibility of creating and maintaining social overheads, where the private sector found itself unable to create and non-viability but was otherwise essential for efficient working of the economy. The argument for stepping in of the State was not that the public sector was absence of the public sector, essential social overheads would not come into social marginal cost. It, therefore, pays for the society to expand social overheads. Their private marginal benefit, however, is much less compared to them. Accordingly, the State is expected to finance social overheads out of public funds and run them, if need be, at a commercial loss.

It must be noted that the State, according to the *laissez-faire* philosophy, was considered as something extraneous to the economy, which was more or less equated with its private sector only. It was, therefore, considered best that the public sector desirable to have a planned economy even for tackling the problems of capital formation and economic growth.

Since activities of the State were to be tolerated only as a necessary evil and were to be reduced to the minimum possible scale, the real question was not to decide the basic allocation of economic activities between public and private sectors and to deal with the associated financial and allied problems, but rather to analyse the way treasury should operate. With this philosophy in the the background, the theory of public finance was obviously assigned a limited field. It was mainly considered a description of the way in which operations of the treasury interfere with the working of the private minimum.

Similarly, Carl C. Plehn, author of *Introduction to Public Finance*, says that the term public finance 'has come, by accepted usage, to be confined to a study of funds raised by governments to meet the costs of government.'

# Scope of Public Finance

The scope of public finance involves a complete discussion of the influence of fiscal operations of the government at the level of overall activity, employment, prices and the growth process of the economic system as a whole.

Taylor says that—'Public finance deals with the finance of the public as an organized group under the institution of the government. It thus deals only with the finances of the government. The finances of the government include the raising and disbursement of government funds. Public finance is concerned with the operation of the fisc, or public treasury. Hence, to the degree that it is a science, it is the fiscal science; its policies are fiscal policies, its problems are fiscal problems.'

These days, the fact and need of interaction and interdependence between state and private sectors is duly recognized and, therefore, in a modern economy, the public sector is assigned a significant role, both in theory and in practice. This has meant a corresponding widening of the scope of public finance including the following:

- · Measures for social security
- · Checking trade cycles
- · Reducing unemployment
- · Bringing about distributive justice
- · Helping capital accumulation and economic growth
- · Removing regional disparities

Many governments also resort to formal planning and an extensive use of the public sector. Therefore, in line with this new approach we come across much wider definitions of public finance. Richard Abel Musgrave, author of *The Theory of Public Finance*, for example, says—'The complex of problems that centre around the revenue expenditure process of government is referred to traditionally as *Public finance*... While operations of the public household involve money flows of receipt and expenditure, the basic problems are not *issues of finance* (emphasis supplied) ... we must think of our task as an investigation ... into those aspects of economic policy that arise in the operation of the public budget.'

Thus, the subject matter of public finance is logically, though not solely, concerned with the financial aspects of the business of government. Similarly, American economist, James M. Buchanan says—'The government, considered as a unit, may be defined as the subject of the study of public finance. More specifically, public finance studies the economic activity of government as a unit.'

The subject matter of public finance, thus, deals with not only the way in which public treasury operates, it also deals with the repercussions of alternative policies which the treasury might adopt and accordingly deals with the question of choice of these policies and operations. Musgrave has advocated an approach in which the state sector is viewed as a public household. Such a public household has certain objectives which can be grouped into categories of the following:

Allocation of resources

- Adjustments in the distribution of income and wealth
- Stabilization of prices and employment.

These refer to the three objectives of budget policy, namely, the use of physical instruments:

- To secure adjustments in the allocation of resources
- To secure adjustments in the distribution of income and wealth
- To secure economic stabilization

We may add that the objectives covering capital formation, economic growth and the like should also be there. In any case, a detailed study of public finance brings in various aspects connected with the formulation and execution of budgetary policies such as the effects of taxation. Relevant conclusions in the theory of public finance can be drawn by bringing in the detailed discussion of not only the way in which public household should itself operate (such as in the field of public sector undertakings) but also the way in which private sector would react to alternative fiscal measures. Such fiscal measures would include, for example, those of taxation, expenditure and public debt. Accordingly, it may be emphasized that Musgrave's approach, though very useful in focussing our attention upon basic objectives of the public household and normative aspects of its working, cannot help us much unless we are equipped with detailed knowledge of the various components of fiscal policy and operations and unless our analysis takes into account the relevant institutional factors.

Since a modern government often operates at several levels (federal, state and local), the subject matter of public finance looks into the financial problems and policies of the government at different levels and also studies the inter-governmental financial

The subject matter of public finance admits to alternative subgrouping with idable areas of overlapping and in the subject matter of public finance admits to alternative subgrouping with unavoidable areas of overlapping and interdependence. Moreover, each group or sub-group admits further details. It should be a subgroup admits further details. It should also be kept in mind that the socio-economic dynamism of a typical modern as of the dynamism of a typical modern economy, supplemented with exponential growth of the financial system and globalization because the system and globalization becau financial system and globalization, has added to the responsibilities of a modern state and its activities. Fresh issues and problems its activities. Fresh issues and problems keep coming up and demanding attention. In the process, the resource needs of the State keep coming up and demanding attention. process, the resource needs of the State keep increasing. It also discovers new avenues of its disbursements as also additional new have of its disbursements as also additional policy weapons. All these developments have enriched and continue to rapidly enrich the discipline of public finance.

- The scope of public finance may be divided into the following:
  - The theory of public revenue: The theory of public finance deals with alternative sources of State income. It discusses and sources of State income. It discusses and analyses comparative advantages and disadvantages of various forms of recommendations. disadvantages of various forms of revenue and the principles which should govern the choice between them. Of various and the principles which should govern the choice between them. Of various sources of public revenue, taxation, non-tax revenues, public debt and creation of additional public revenue, taxation, non-tax
    - revenues, public debt and creation of additional currency claim our special attention.

      In the study of taxation. In the study of taxation, we cover various principles governing the choice of tax measures, the problems of incident tax measures, the problems of incidence of taxation, and the effects of taxation
    - Non-tax revenue includes dividends and profits from public undertakings, grants fees, fines, and interest receipts and profits from public undertakings, grants fees, fines, and interest receipts and profits from public undertakings, grant importance in overall policies of the importance in overall policies of the government in general and of fiscal policies in particular.

- In modern times, it is helpful to study public debt problems separately.
- Resorting to the printing press by the authorities has its own advantages and disadvantages, dangers and limitations and deserves special attention.
- In some economies public sector undertakings provide a crucial policy and regulatory instruments in the hands of authorities. In such a case, it is imperative to ensure that they happen to be a source of strength rather than a weakness.
- With modern governments, public debt has become an important source of revenue, but that is not all. Its servicing causes disbursement of public funds and belongs to the side of public expenditure. Moreover, public debt has assumed the role of an important instrument for regulating the working of the economy.
- Theory of public expenditure: Through public expenditure the government participates in and contributes to financial flows of the economy and influences its demand and supply patterns. It is also a major tool for implementing welfare, growth stabilization and other policies of the government.
- 3. Financial administration: All financial activities involve issues of financial administration including public budget, its passing, implementation, auditing and similar other matters. Without a study of relevant dimensions of financial administration the subject of public finance remains incomplete.
- Stabilization, growth and distributive justice: These have become leading
  issues in economic policies of modern governments and, therefore, their financial
  implications deserve a separate treatment in the discussion of public finance theory.
- 5. Federal finance: Existence of a multilayer (or multi-level) system of government necessitates a corresponding division of functions and resources between different layers as also issues and problems relating to intergovernmental financial flows, financial imbalances and their rectification. Federal finance has, therefore, been an integral part of modern public finance.
- 6. Issues of public policy: A modern government is expected to deal with a host of socio-economic issues that keep cropping up continuously. Such issues are of diverse nature and financial implications. They may be treated on a standalone basis, or integral parts of other issues.

# Public Finance and the Economic System

The state sector is not just a necessary evil to be tolerated. It can be designed and operated as an effective set of tools for improving the performance of the economy in several ways.

The classical approach to the study of public finance did not accept this viewpoint. It assumed that private sector was always more efficient than the public one implying that to the extent possible, the economic activities should be entrusted to the private sector only. It was argued, accordingly, that the 'sound budgetary policy' of the government was that of balancing the budget. Running into deficits and creating public debt causes a financial burden upon the future public budgets and an 'undue' interference with the working of the economy. Therefore, any unavoidable deficit such as during a war should be redeemed as quickly as possible. There is another danger in the practice of budgetary deficits. It creates an atmosphere of financial indiscipline and imprudence within the government itself leading to irresponsible spending and inflationary pressures. Similarly, one can argue against surplus budgets. A surplus budget implies a heavier than

needed taxation, reduces effective demand in the market and results in unemployment and depression.

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It was realized, in due course, that the market mechanism, which guides the working of the private sector is not an unmixed blessing. It leads to certain undesirable results also. These considerations strengthen the case for the public sector as an effective alternative to the private sector in many ways. Accordingly, the old dictum that the government must try to balance its budget as a sound budgetary policy stands discredited It has given place to what is called the functional finance. According to it, what is needed is not a balanced or unbalanced budget as such, but stability and growth of income and employment in the economy. For this purpose, it may be necessary to add of subtract from the effective demand created by the private sector. If a particular tendency, such as a deficiency of effective demand, persists in the private sector, there would be no harm if the state sector repeatedly incurs a deficit. The emphasis here is on the relevance of the aggregate effective demand created by both public and private sectors instead of surplus or a deficit budget as such.

The concept of a balanced budget, in whatever way defined, becomes irrelevant in a policy of using financial operations of the government exclusively as instruments of economic and public policy.

This view is further strengthened by the recognition of the fact that public debt can be an important and effective instrument of economic policy, especially in stabilization This view was emphasized by the Radcliffe Committee in England and is now well recognized in both academic and policy circles. The precise way in which public debt may be used as a stabilizing instrument is debatable, but its importance is beyond doubt

Gurley and Shaw, in their famous book Money in a Theory of Finance, have provided a theoretical basis for creating public debt. According to this view, an economy can have a healthy growth only if it has a sound financial system in which public debt has an important and indispensable place size of an important and indispensable place, since the health of the financial system is dependent upon the provision and soundness of making the provision and the provision and the provision and soundness of making the provision and the pro upon the provision and soundness of public debt (including currency supply).

# DIFFERENCES BETWEEN PUBLIC AND 1.3 PRIVATE FINANCE

By private finance, we mean the financial problems and policies of an individual economic unit (which does not form a part of State organic) unit (which does not form a part of State organs) as compared with those of the public authorities. It is a convention to look into similarity. authorities. It is a convention to look into similarities and dissimilarities between the two so as to provide an analytical foundation for the descriptions. so as to provide an analytical foundation for the decision-making aspects of public finance

Modern economies are monetized. That is to say, most of their economic activities have financial counterparts involving creation and use according to their economic activities and use according to the economic activities and the economic activities and the economic activities are according to the economic activities and the economic activities according to the economic activities and the economic activities and the economic activities according to the economic activities and the economic activities according to the economic activities a financial counterparts involving creation and use of financial claims. Both private appublic sectors are engaged in activities that involved the sectors are engaged in activities. public sectors are engaged in activities that involve purchases, sales and other transactions. Similarly, they are engaged in production and use of financial claims. Both private purchases, sales and other transactions. Similarly, they are engaged in production, exchange, sales and other transaction investment and so on. In order to finance these investment and so on. In order to finance these operations, the government, among other things, creates money (which is also a 5

other things, creates money (which is also a financial asset), raises loans and make payments. Similarly, a private economic unit be a make payments. Similarly, a private economic unit lends, borrows, receives payments, make payments and so on. In this respect, therefore payments and so on. In this respect, therefore, both the public and private finances and quite similar to each other.

# Check Your Progress

- 1. What does the term 'public finance' denote?
- What does the scope of public finance include?

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One may also point out that both sectors are engaged in satisfying the wants of the society by sharing economic activities. Both have limited resources at their disposal and try to make their best by taking decisions such that the 'most important' wants are satisfied first. In that sense, their problems and decisions are similar.

But the similarities between the two types of finances almost end here. In contrast, the differences between the two are quite sharp.

#### Dissimilarities

The dissimilarities between private and public finance may be summarized as follows:

- To begin with, it may be stated that a private economic unit has to live within
  its means. Its deficit budgeting (that is spending more than the income) can be
  only for a limited period and only up to a limit. Given its economic standing, it can
  accumulate outstanding debt liabilities up to a limit and no more. But this constraint
  hardly applies to the State. It can plan to add to its outstanding debt with every
  budget, and may also succeed in doing so. A number of governments are virtually
  doing this. The result is that the public debt in many countries has become a high
  proportion of national income.
- 2. The distinction between private and public borrowings does not end with only amounts of possible borrowings, but extends to their forms, rates of interest and other terms and conditions. A private firm cannot raise non-repayable loans, but the State may and sometimes does. The State can borrow both internally and externally, that is, it can borrow from those who are subject to its authority and from those who are not. But a private economic unit (such as a firm) cannot raise an internal loan; all its loans have to be 'external'. Furthermore, high creditworthiness of the State enables it to borrow at rates much lower than the private economic units have to pay. It has the support of the central bank of the country as an agent and as an underwriter when its loans are floated in the market. It can draw upon the facilities of the banking and other financial institutions more liberally. In some cases, it may adopt indirect coercive methods to borrow at lower rates, as was done in India till the early 1990s.
- 3. The government or a competent authority on its behalf can create legal tender currency, that is, money which the creditors cannot refuse to accept in discharge of their claims upon their debtors. With the introduction of paper currency, the authorities in many countries have acquired an unbridled discretionary power to add to currency supply. Often the formal technical restrictions can be waived if the government so wants. Such types of restrictions mainly indicate procedural handicaps and not essential checks.

The upshot of the argument is that the government can just *create* purchasing power and add to the demand side of the market and take away a part of the national produce. It can leave the rest of the economy with more money and a smaller supply of goods than before. A private economic unit cannot do so. Its obligations can never become legal tender. A private economic unit is always expected to pay back its obligations. In contrast, obligations of public authorities via issue of currency need not be redeemed at all.

4. It is claimed that private finance follows the 'market principle', or the principle of economic rationality; but public finance follows the budget principle. It means that private economic units are guided by market signals and of market

mechanism and their own economic interest: In contrast, the essence of the budget principle is that the services in this sphere are determined not by profit expectations and the willingness of the individuals to spend their money for the purchase of such services, but by decisions reached through political and administrative procedures and based on common social objectives. The State does not go by the principle of quid pro quo.

- 5. Quite often, in private finance, the view taken is a short-term one. In contrast, the State is expected to take a long-term view of the interests of the economy as a whole and be ready to suffer commercial losses for that purpose, both in the short run and in the long run. Also the State would keep in mind the fact that the society is a perpetual entity and for its welfare many activities are needed which have no immediate economic return, even to the society. An example in case is the investment of the State in removing untouchability.
- 6. It is generally pointed out that while a private economic unit proceeds by first ascertaining its income and then determining its expenditure, the government first decides about its expenditure and then goes round to seek revenue fol it. But, it is an erroneous idea based upon the outmoded thinking that the activities of the State would be confined to the minimum possible and that the State would then find out the best ways of financing them. However, these days, it is not so. It is realized that the activities of the State are not fixed ones. They are ever-widening and with the increasing complexity and growth of the society, the need to increase State activities is also going up. The government, therefore, has to expand its activities though such expansion is restricted, amongst other things by financial considerations also. Though the State, theoretically speaking, has complete powers of raising additional receipts through taxation, confiscation borrowing and printing notes, it would uses these powers only within limits so the the fabric of the economy is not overstretched. For example, overborrowing by the State could starve the capital market and private investment. Too much o note printing would lead to inflationary pressures and other problems in the economy. Excessive taxation may discourage saving and investment and productive activities and so on. Therefore, the activities and so on. Therefore, in practice, the government does not use the powers indiscriminately. For example, most government does not use no powers in which a system of nonressive tax in the system of nonressive tax i progressive tax in which poorer sections of society are taxed lightly. All said and done, the expenditure programme of the government is, to a great extent conditioned by the revenue considerations.

In the same manner, a private economic unit does not mechanically go about deciding how much to spend. The wants of a private economic unit would also be generally too many and within limits it has to work out the possible ways of increasing its income.

Thus, we note that in spite of some similarities between the public and private finance, there are some very important fundamental differences differences in mind, since it is obvious that on their account a number of principle of private finance will not apply to public finance. Differences like the very objective of private finance and public finance, or the ability of the authorities to creat money, to borrow, to tax and so on cannot be ignored. But in order to appreciate the basic nature of public finance, it is equally essential to remember that the public sector is a part and parcel of the totality of the economy. The activities

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the public and private sectors are interrelated and interdependent and involve a good deal of mutual transferring of resources. The policies adopted by the authorities have to be analysed in the light of these observations.

In order to understand the nature of public finance and its principles, one has to be equipped with the knowledge of the way the economy as a whole works, the way various financial flows take place in the economy and the corresponding economic activities that are there. The activities of the State bring about changes in these financial flows in their own ways and the subject matter of public finance has to be discussed in the light of all these implications.

#### 1.3.1 Public Goods and Private Goods

The concept of public goods was introduced by Paul A. Samuelson in his famous contribution titled 'A Pure Theory of Public Expenditure'. Over time, this concept has gained widespread currency and has been refined, extended and elaborated in several ways.

. A distinction between private and public (social) goods can be made on the basis of presence or absence of the following two basic characteristics.

#### 1. Excludability

The first characteristic is that of excludability of a good. It means that it is possible to restrict the availability of a good to select users on a certain basis, such as, by making it a priced good. Only those users who have the capacity and willingness to pay its price can have it. In contrast, a non-excludable good is either available to all or to none. A good example of a non-excludable good is the defence of a country against foreign aggression. Once the country is provided this protection, no section of society can be deprived of enjoying its benefits. Defence services provided by the State cannot be priced and restricted to only those who pay for it. Similarly, in some cases a consumer cannot surrender the use of a service even if he wants to. An individual cannot ask to be left undefended by the defence arrangements of the State, or refuse the benefits of a reduction in air pollution or those of street lighting and so forth.

## 2. Rivalry

The second characteristic to be taken into account is its being rivalrous or not. When a good is non-rivalrous, its use by some does not reduce its availability to others. In that sense, its use cannot be rationed between its users and it is, thus, indivisible. There is no 'overcrowding' of its users irrespective of their number. For example, any number of persons can tune in radio or TV programmes without reducing their availability to others. The use of a rivalrous good, however, reduces its availability to others.

Those goods which are both excludable and rivalrous are termed *private goods* or *pure private goods*. Their use can be rationed between their potential users. In contrast, goods which are both non-excludable and non-rivalrous are termed *public goods* or *social goods*.

The issue of financing the provision of a specific good or service is closely linked with it being a public good or a private good. Provision of a private good can be financed through its sales proceeds and can, therefore, be left in the hands of the private sector. In contrast, a public good is both non-excludable and non-rivalrous. Once it is provided, it is accessible to all. Consequently, its provision cannot be financed through its pricing

and there is a risk that its users would not pay for it voluntarily. For example, in the case of defence service, every individual can argue that he would have access to it even if it does not pay for it. Its provision for him would not be affected by his not paying for it Consequently, very few or even none may pay for it voluntarily hoping that the provision of the service would be ensured through the contributions and efforts of others. This phenomenon is referred to as the problem of free riders<sup>2</sup>, that is, the non-feasibility of financing the provision of a good on a voluntary basis. Therefore, the provision of such a good or service has to be financed through compulsory contributions (like taxation by the members of the society. Their financing cannot be left to market mechanism

It must be noted that the non-excludability of a public good does not necessarily imply that all members share it equally. In case of a war, protection against enemal attack may to some extent description. attack may, to some extent, depend upon one's places of residence and work. Similarly people living near political boundaries of the country may, for obvious reasons, becomparatively less protected by comparatively less protected. People living near public parks derive more benefit from them even when all members of society are equally entitled to their use. Thus, the majoriterion of non-excludability is that criterion of non-excludability is that all member of society (or a section thereof) should be equally entitled to the use of the be equally entitled to the use of the good in question irrespective of their ability willingness to pay for it. The first the good in question irrespective of their ability of the through the state of the good in question irrespective of their ability of the state of the good in question irrespective of their ability of the state of the good in question irrespective of their ability of the good in question irrespective of their ability of the good in question irrespective of their ability of the good in question irrespective of their ability of the good in question irrespective of their ability of the good in question irrespective of their ability of the good in question irrespective of the good in question irrespective of the good in question irrespective of their ability of the good in question irrespective of the good irrespe willingness to pay for it. The financing of the concerned activity has to be through public expenditure and not through market pricing.4

# Additional Characteristics

This leads us to look at some additional characteristics of public goods.

Pure public goods are characterized by the existence of externalities, that is, economic effects which flow from their production and existence of externalities, that is, economic units. effects which flow from their production or use to third parties or economic units. Sure economic effects may also be called spill. economic effects may also be called spill-over effects, neighborhood effects or third parties or economic units via input party effects. They arise on account of interdependence of economic units via input output relationships and may be in form of missing and missing and may be in form of missing and missi output relationships and may be in form of gains or losses. An externality may be pecunificated that is, directly monetary) or technological or losses. An externality may be pecunificated that is, directly monetary. (that is, directly monetary) or technological. An externality may be pecual economy which in turn transmit their effects the externality affects the prices in economy which in turn transmit their effects to production and consumption decisions social marginal autist. This causes a divergence of the production and consumption decisions social marginal autis. other economic units. This causes a divergence between the internal (or private) as social marginal costs (or benefits) of the coads. social marginal costs (or benefits) of the good in question. Thus, for example, pollution society but not to the good in question. Thus, for example, power houses, raily marginal costs (or benefits) of the good in question. caused by factories, power houses, railways, and transport vehicles is a cost to overheads like and individual undertakings. society but not to the individual undertakings, and transport vehicles is a cost to overheads like roads and so forth cause a disconline special marging benefits. overheads like roads and so forth cause a divergence between private and social margin

These externalities are of two types.5

- (i) market external (or marketable external) effects; and

(ii) non market external (or non-marketable external) effects. In the case of non-market external effects.

fied and compensated for loss, nor contract, individual economic units cannot in contract. identified and compensated for loss, nor can they be identified and charged for economic beautiful and charged for economic beaut gains. In contrast, in the case of market-external effects, the losers (beneficiaries)

be identified and compensated (charged) for the same. By implication, provision of public goods with non-market external effects should be commercial. be preferably in the hands of the public authorities since they can provide them in especial profitability. In contrast can be preferably in the hands of the public authorities since they can provide them in especial profitability. In contrast can be something the market extending of their commercial profitability. In contrast, pure public goods with market external external profitability. In contrast, pure public goods with market external external contrast.

effects may be left in the hands of the private sector (though even here their characteristic of non-excludability demands that they should be in the hands of the public sector only).

A pure private good is supposed not to have any externalities. In its case, there is no difference between private and social marginal costs of supply. Therefore its market price represents its social supply cost also. By implication, even in the hands of private sector, its supply would be at the socially optimum level. Ordinarily, therefore, the provision of pure private goods should be entrusted to the private sector. But on account of various reasons this may not be adhered to in every case. The government might decide to step in where **merit wants** are concerned or for other relevant considerations like the cost conditions, resource availability, social and political philosophy and so on.

# Marginal Cost

A likely characteristic of a pure public good is that its marginal cost is zero or close to zero. It means that an additional member of the society can be benefited by its use without appreciably adding to its total cost. To put it differently, the use of a pure public good by one more member of the society does not reduce its availability to the others. A good example of it is the tuning in of your radio set. Still another example is that of a bridge, over which an additional vehicle may pass without any additional cost to the society. Note, however, that mostly this principle applies, in reality, only to a limited extent. We cannot keep adding to the number of vehicles that may use the same bridge; we cannot have the same defence budget if our population keeps increasing and so on. Also it may be added that a large part of the society may not be able to enjoy the benefits of a public good without adding to the cost of its supply. Similarly, the provision of a public good may be increased or decreased for budgetary reasons or due to some extraneous factors. Pure public goods which possess this characteristic have a strong case for inclusion in the public sector since public goods are indivisible also. In the case of private goods, on the other hand, the argument is basically in favour of large scale production for which either the society should agree to a monopolistic type of private enterprise or should go in for public sector enterprises.

## Decreasing Average Cost

Another likely characteristic of a pure public good is its decreasing average cost. Being lumpy, it would be subject to the economies of scale. If the public good is provided in small units, then the average cost is likely to be much more. For example, the average cost of operating a sewerage system is much smaller if it serves a wide area than when it serves only a portion of the city. When it comes to the choice between public and private sectors for the provision of goods possessing this characteristic, considerations similar to the ones mentioned above in the case of marginal cost characteristic apply.

#### Impure Public Goods

It would be noticed that it is highly difficult to come across goods which fully satisfy all the characteristics of pure public goods. Similarly, it is equally difficult to come across pure private goods. In general, most goods possess a mixture of both publicness and privateness. The division between the two types is mostly one of degree and not of kind. Such goods which are neither pure public goods nor pure private goods are called impure public goods (also called quasi public goods or quasi private goods). If the elements of publicness are predominant in the mixture of characteristics of a good, then it may be termed a public good; and in the opposite case, a private good.

## Local Public Goods

NOTES

Over time, the subject matter of public goods gained in depth and coverage. Additional issues associated with their nature and relevance were identified for policy-making. Further impetus was imparted to this subject when issues like the geographical coverage of a public good, its provision in a country having two or more tiers/layers of government determination of public preferences and their aggregation for it gained prominence.

# Tiebout-Oates Model

Samuelson had highlighted some problems relating to a public good, such as the level of government that should provide it, quantification and aggregation of the preferences of its users, financing its provision and the like. Charles Mills Tiebout probed these questions and asserted that, under some assumptions, these typical problems could be satisfactorily solved in the case of a sub-category of public goods provided by local/municipal authorities. He termed this sub-category of public goods—Local Public Goods. Tiebout's is a highly abstract model based upon strong and unrealistic assumptions and is variously known as the Tiebout Model, Tiebout Hypothesis, Tiebout Sorting and Tiebout Migration. It is also referred to as Tiebout—Oates Model.

Tiebout maintains that there is a sub-category of public goods the provision of which is restricted to people living in (or visiting) a specific geographical area falling within the territorial jurisdiction of a municipal/local body. These goods, therefore, continue to be non-rivalrous, but acquire a degree of excludability. Those who do not reside in (of cannot visit) the specified localities, are automatically denied access to the services provided by it. Every person living in (or visiting) this area is entitled to use these public goods (such as parks, streets, scavenging, street lighting, and so on) irrespective of whether others are also using them or not. At the same time, every such person can be subjected to compulsory contribute to the financing of their provision. This solves the problem of free riders by converting the residents of that area into 'compulsory riders' It means that the residents have to 'consume' those public services and pay for them the prescribed user charges. No resident is given the option of selecting the municipal services to be consumed by him or the 'user charges' to be paid by him. The municipal body does not alter the basket of services it is providing in response to the preferences of the residents. If some residents disagree with this arrangement, they can migrate to some other municipal area where the provision of municipal services and user charges are acceptable to them. This method of showing preference for a specific set of local goods and willingness to pay for them by migration between municipal areas is termed 'voting with the feet'. Inter-municipal migration continues till the services provided by municipal bodies and charges for them synchronize with the preferences of their consumers.

It may be added here that Samuelson had pointed out that several public goods are only partially non-rivalrous. They are prone to congestion (or over-crowding). Their of several public goods provided by local governments, such as schools, parks and fire of this phenomenon is that it becomes generally impossible to provide these goods as aggregated. In other words, the problem is that the volume of individual services provided a theoretical solution of this problem in the form of migration of users of these services.

In his model, the users reveal their preferences by migrating between municipal areas. This process of migration continues till there is complete matching and the above said problems get solved.

Tiebout model is based upon some strong assumptions including the following.

- Individuals possess perfect information and they are free to move from one municipal area to the other.
- There are enough areas and communities to choose from.
- Problems relating to migration (employment, earning, quality of living associated with some areas, language, culture and other factors) do not come in the way of actual migration.
- Migration is costless and without any disruption.
- Each municipal area has a set of services which are not revised over time.
- The quality of public services is same everywhere.
- Communities do not suffer from negatives like poor law and order, or undesirable habitante
- The individuals must consume all the goods (both public and private) at the same location, and there are no spill-over effects from one community to the other.
- The model ignores the availability and consumption of national level public goods.
- It assumes that the extent, quality and financing of local public goods are not affected by changing numbers of their consumers.

As stated above, these are highly unrealistic assumptions. A growing economy and society, with changing urbanization and inter-country roads, communication, rail and other facilities and infrastructure is abound to change the scenario over time. The model does not take into account these changes. It is set within the framework of a static economy. It loses relevance in a country like India where every locality is not served by municipal bodies and quality and type of services provided by municipalities widely differ from each other. In several cases, even a large number of basic amenities are not provided. Moreover, in any case, public expenditure in India suffers from a high degree of inefficiency.

# Club Goods

The concept of club goods (also termed artificially scarce goods) was introduced by James M. Buchanan<sup>8</sup> They are a sub-set of local public goods and are characterized by an artificially created scarcity. They are distinguished from local public goods by the fact that they are fully excludable. They are public goods embedded with full excludability.

Potential users of club goods are not excluded on the criterion of geographical residence, but on the basis of some other criteria which can vary from case to case. These criteria normally culminate themselves in the form of club membership which, in turn, may be subject to one or more criteria like financial contribution, some academic or professional qualification/accomplishment, social status, religion, community, nationality, political views and so on. The list is inexhaustible.

Club goods are neither fully rivalrous nor completely non-rivalrous. By their very nature, the number of their consumers can be increased but only up to a limit.

It may be noted that suppliers of club goods are in the nature of monopolies. These goods are characterized by artificial scarcity created by the suppliers in one of more ways. For this reason, club goods typically suffer from under-supply as is the case with most merit goods.

Over space and over time, the category of club goods is subject to a wide variation. It is also noteworthy that the precise nature of club goods is shrouded in a blanket of haziness and in some cases, it may be difficult to decide when a specified good becomes a club good and when it ceases to be so. In India, for example, we have roads built and operated on the basis of public-private partnership. The users of such roads are categorized on the basis of certain criteria and some categories of users have to pay the toll. That way, these roads have a differentiated excludability as in the case of club goods. But a tool road becomes rivalrous only when it is crowded beyond a limit. So long as it is partially rivalrous, it is a club good. But once it is crowded beyond a limit and becomes fully rivalrous, it assumes the nature of a private good (which is both excludable and rivalrous).

Observation on Free Ridership. It is pertinent to note that the problem of free ridership can exist only when a good is fully non-excludable, irrespective of whether it is also rivalrous or non-rivalrous. Local public goods and club goods are, by their very nature, impure public goods. Assumptions made in Tiebout model and club theory are such that goods provided by local authorities and clubs become fully excludable. For this reason, the problem of free ridership ceases to exist in their case.

# Merit Goods

Merit goods are those goods the consumption of which not only benefits their consumers but also non-consumers. Examples of merit goods include education, health services and the like. Left to market mechanism, the availability of such goods remains inadequate as compared with their need because of an inherent deficiency of effective demand for them (that is, insufficient purchasing power in the hands of their potential consumers) on account of their overriding importance, provision of such goods helps the economy in attaining a high level of efficiency and helps in achieving basic objectives of the society supplement their availability. Alternatively, it may choose to subsidize their production of consumption.

# Mixed Goods

Mixed goods are the types of goods which comprise elements of both private and public goods. A mixed good is like a private good in that it is rivalrous and excludable, but it are not revealed by the market mechanism. Examples are (i) healthcare; (ii) education; (iii) public transport; (iv) refuse collection and (v) fire-service. Infrastructures are usually

# 1.4 DALTON'S MAXIMUM SOCIAL ADVANTAGE

The principle of Maximum Social Advantage was introduced by British economist, Hugh Dalton. According to Hugh Dalton, public finance is concerned with income and expenditure of public authorities and with the adjustment of one with the other.

# Check Your Progress

- State two dissimilarities between private and public finance.
- 4. What are impure public goods?

NOTES

Budgetary activities of the government results in transfer of purchasing power from some individuals to others. Taxation causes transfer of purchasing power from tax payers to the public authorities, while public expenditure results in transfers back from the public authorities to some individuals, therefore, financial operations of the government cause 'Sacrifice or Disutility' on one hand and 'Benefits or Utility' on the other. This results in changes in pattern of production, consumption and distribution of income and wealth. Therefore, it is important to know whether those changes are socially advantageous or not. If they are socially advantageous, then the financial operations are justified otherwise not. According to Hugh Dalton, 'The best system of public finance is that which secures the maximum social advantage from the operations which it conducts.'

The principle of Maximum Social Advantage (MSA) is the fundamental principle of public finance. It states that public finance leads to economic welfare when public expenditure and taxation are carried out up to that point where the benefits derived from the MU (Marginal Utility) of expenditure is equal to (=) the Marginal Disutility or the sacrifice imposed by taxation.

Hugh Dalton explains the principle of maximum social advantage with reference to:

- (i) Marginal Social Sacrifice (MSS)
- (ii) Marginal Social Benefits (MSS)

This principle is, however, based on the following assumptions:

- (i) All taxes result in sacrifice and all public expenditures lead to benefits.
- (ii) Public revenue consists of only taxes and no other sources of income to the government.
- (iii) The government has no surplus or deficit budget but only balanced budget.
- (iv) Public expenditure is subject to diminishing marginal social benefit and taxes are subject to increasing marginal social sacrifice.

# Marginal Social Sacrifice (MSS)

Marginal Social Sacrifice (MSS) refers to that amount of social sacrifice undergone by public due to the imposition of an additional unit of tax.

Every unit of tax imposed by the government taxes result in loss of utility. Dalton says that the additional burden (marginal sacrifice) resulting from additional units of taxation goes on increasing i.e., the total social sacrifice increases at an increasing rate. This is because, when taxes are imposed, the stock of money with the community diminishes. As a result of diminishing stock of money, the marginal utility of money goes on increasing. Eventually, every additional unit of taxation creates greater amount of impact and greater amount of sacrifice on the society. That is why the marginal social sacrifice goes on increasing.

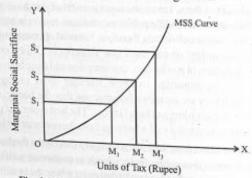


Fig. 1.1 Increasing Marginal Social Sacrifice Curve

The above diagram indicates that the Marginal Social Sacrifice (MSS) currises upwards from left to right. This indicates that with each additional unit of taxation the level of sacrifice also increases. When the unit of taxation was OM,, the marginal social sacrifice was OS,, and with the increase in taxation at OM, the marginal social

# Marginal Social Benefit (MSB)

While imposition of tax puts burden on the people, public expenditure confers benefits The benefit conferred on the society, by an additional unit of public expenditure is known

Just as the marginal utility from a commodity to a consumer declines as more and more units of the commodity are made available to him, the social benefit from each additional unit of public expenditure declines as more and more units of public expenditure are spent. In the beginning, the units of public expenditure are spent on the most essential social activities. Subsequent doses of public expenditure are spent on less and less important social activities. As a result, the curve of marginal social benefits slopes downward from left to right as shown in Figure 1.2.

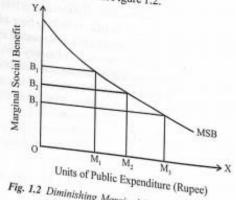


Fig. 1,2 Diminishing Marginal Social Benefit Curve

In Figure 1.2, the Marginal Social Benefit (MSB) curve slopes downward from right. This indicates that the social bases of the left to right. This indicates that the social benefit (MSB) curve slopes downward reducing at a diminishing rate. When the social benefit derived out of public expenditure is reducing at a diminishing rate. When the public expenditure was OM<sub>1</sub>, the margin<sup>gl</sup> social benefit was OB,, and when the public expenditure is OM2, the marginal social benefit is reduced at OB,.

# The Point of Maximum Social Advantage

Social advantage is maximized at the point where marginal social sacrifice cuts the marginal social benefits curve.

This is at the point P. At this point, the marginal disutility or social sacrifice is equal to the marginal utility or social benefit. Beyond this point, the marginal disutility or social sacrifice will be higher, and the marginal utility or social benefit will be lower.

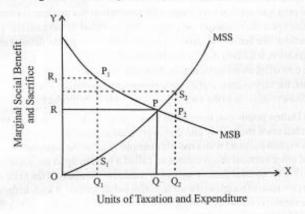


Fig. 1.3 Maximum Social Advantage is Obtained at the Point of Intersection of MSS and MSB Curves

At point P, social advantage is maximum. Now consider Point  $P_1$ . At this point marginal social benefit is  $P_1Q_1$ . This is greater than marginal social sacrifice  $S_1Q_1$ . Since the marginal social sacrifice is lower than the marginal social benefit, it makes more sense to increase the level of taxation and public expenditure. This is due to the reason that additional unit of revenue raised and spent by the government leads to increase in the net social advantage. This situation of increasing taxation and public expenditure continues, as long as the levels of taxation and expenditure are towards the left of the point P.

At point P, the level of taxation and public expenditure moves up to OQ. At this point, the marginal utility or social benefit becomes equal to marginal disutility or social sacrifice. Therefore at this point, the maximum social advantage is achieved.

At point  $P_2$ , the marginal social sacrifice  $S_2Q_2$  is greater than marginal social benefit  $P_2Q_2$ . Therefore, beyond the point  $P_2$  any further increase in the level of taxation and public expenditure may bring down the social advantage. This is because each subsequent unit of additional taxation will increase the marginal disutility or social sacrifice, which will be more than marginal utility or social benefit. This shows that maximum social advantage is attained only at point P and this is the point where marginal social benefit of public expenditure is equal to the marginal social sacrifice of taxation.

Maximum social advantage is achieved at the point where the marginal social benefit of public expenditure and the marginal social sacrifice of taxation are equated, i.e., where MSB = MSS.

This shows that to obtain maximum social advantage, the public expenditure should be carried up to the point where the marginal social benefit of the last rupee or dollar spent becomes equal to the marginal social sacrifice of the last unit of rupee or dollar taxed.

#### NOTES

# Limitations of the Principle of Maximum Social Advantage

The simple exposition of the principle of maximum social advantage as described above suffers from some obvious limitations.

- The principle wrongly assumes that the State is something external to the economy
- The principle can be refuted even on the assumption that the State is a superimposed
  entity upon the economy. So long as it is essential to have certain basic State
  functions like that of protecting the society both from internal disaster and external
  aggression, it follows that the benefits from the very existence of the State exceed
  the cost of its own maintenance. Actually, without these basic functions of the
  State, the very existence of the society cannot be guaranteed. Also, the availability
  of State protection to the society invisibly adds to its productive efficiency.
- As Dalton points out, there is no basis for a generalization that every tax is a burden upon the society and that every state expenditure is a benefit for it. We can explain this point with a real life example. Atax on the consumption of narcotics and other harmful drugs cannot be called a burden upon the society, though a the provision of social overheads and other public utilities, it leads to the emergence production goes up and the economy benefits. The State, through its activities and in this way it may return to the economy (in the form of economic growth) more than it gets from it.
- Moreover, the benefits and ill-effects of a public budget to the economy generall
  spill over beyond the period covered by a given budget. Accordingly, it is a defective
  logic to argue in terms of a single budget only.
- If we assume that all taxes are harmful and all public expenditure is beneficial we arrive at some absurd results. For example, it will follow that the best course for the State would be not to levy any tax at all and finance all its activities conclusion. We must remember that by themselves taxes or public expenditure do not destroy or create any resources. They only provide a means of transferring overall resource availability is only an indirect result of budgetary operations.
- Non-tax revenue includes fines, fees, profits from public undertakings, dividends
  from investments, use of the printing press, market borrowings and so on. These
  irrelevant to the welfare and working of the geometric techniques.
- Every State is committed to certain expenses a liability from which it cannot of the country, maintenance of law and order in the society, imparting justice to the people, certain welfare measures, servicing of the existing debt and so on.

NOTES

- The effects of public finance operations are complex, widespread, and often indirect. They are not quantifiable in simple and direct terms as is done in the principle of Maximum Social Advantage. An imbalanced budget is often an effective weapon affecting various remedial and welfare measures and thereby maximizing aggregate social advantage. For example, indirect taxes often change relative prices of commodities leading to changes in demand, consumption, production and investment patterns of the society. Thus, it is not possible to link welfare and growth effects of public finance operations with the amounts of taxation and public expenditure and ignore other aspects of budgetary measures and policies.
- To assume that the government budget should always be a balanced one is a
  highly unrealistic restriction. If the objective of the budgetary policy is to be of
  maximum advantage to the society, such a restriction is most likely to hinder its
  attainment. Contracyclical budgetary measures to offset fluctuations in demand
  generated by the private sector are often suggested. Similarly, in an underdeveloped
  country, a deliberate deficit budgeting may be needed to stimulate savings and
  capital accumulation.
- Logically, it is incomplete to determine an optimum level of State activities in terms of budgetary aggregates only. Full potential of budgetary operations is revealed only through their detailed study and associated policies. This fact brings in a host of relevant questions regarding institutional and economic framework of the country such as income and wealth inequalities, regional imbalances and the like. To put it differently, the question of determining an optimum level of State activities leads us to consider in details the effects of alternative budgetary policies at different levels and in all their details; and without such an analysis no meaningful answer is possible.

# The Principle in Practice

The question arises that since the principle of maximum social advantage suffers from so many limitations, should we not discard it totally to which the reply is an emphatic no. Instead, we should try to make it more realistic and capable of yielding policy conclusions. For this purpose, we first show that it is highly undesirable to limit the State's budgetary activities to the minimum possible. And then we try to find out the tests which should tell us as to whether the budgetary activities of the State are of net advantage to the society or not.

# The Case for State Activities

The case for confining State activities to the minimum rests on the assumption of superiority of market mechanism. It assumes that the market is able to generate full employment, and is always more efficient than the public sector. Therefore, within its narrow sphere, the State should only make a judicious choice between alternative taxes and items of expenditure. But we note that these assumptions are highly unrealistic. In reality, market mechanism fails to generate full employment, leads to cyclical fluctuations and creates income and wealth inequalities. It need not succeed in realizing high enough rates of capital accumulation and economic growth. Therefore, it is a duty of the State to remove these drawbacks.

Furthermore, we must remember that though competition is supposed to guide the economy according to consumer's sovereignty, in reality it is not so for two reasons.

Firstly, on account of inequalities of income and wealth, the demand patters generated in the market does not really display true needs of the society. Quite a number of luxuries are demanded at the cost of necessities which the poor people cannot afford to buy for want of purchasing power. There is also a shortage of merit goods due to their non-profitability.

Secondly, the market competition, in practice, tends to degenerate into a monopolistic competition in which there is a lot of wastage on account of selling expenses, unutilized productive capacity, hoarding, speculation and so on.

# The Tests

Assuming, therefore, that the State cannot remain indifferent to the working of the economy, we proceed to look for the tests of maximum social advantage. To make these tests realistic we treat the State as a part and parcel of the economy. This being so, the sweeping statements like the ones asserting that all taxes are leakages from the economy's resources and that all public expenditures are additions to them, lose them meaning. Instead, it becomes relevant to analyze the net effects of budgetary activities covering not only the budgetary aggregates as such, but also their detailed composition

However, this is not an easy task. The effects of many State activities cannot be quantified. As examples, we can mention the removal of untouchability, spreading of education, improvement in health and sanitation and so on. Almost every State activity has widespread effects and it is possible to the has widespread effects and it is nearly impossible to estimate all of them. In other words, it is very difficult to devise about the devise ab words, it is very difficult to devise objective tests of benefits and losses to the society and thereby determine (estimate) the and thereby determine (estimate) the quantum of social advantage generated by Stats

# 1. Dalton's tests

Even under difficult (but realistic) conditions, Professor Dalton gives us certain objective tests according to which it can be according to the conditions. tests according to which it can be ascertained whether public finance operations and adding to the social advantage or not. The social advantage of not the social advanta adding to the social advantage or not. These tests are formulated by assuming that the are certain generally accepted desirable objectives which the society should try to

- Preserving the society: If it is agreed that the society, as it exists, is worth preserving, then a system of public finance which ensures adequate protection the society against both foreign aggression and in the society against the society again the society against both foreign aggression and internal disruption certainly additions to social advantage and is worth pursuing
- Economic welfare of the community: This welfare involves two aspects: (a) improvement in production, and (b) an involves two aspects: (a) improvement in production, and (b) an improvement in the distribution of nation

An improvement in production should not be taken to mean an increase in current outp as such, but basically an increase in the productive capacity of the economy of the sustainable basis. An increase in current output through sustainable basis. An increase in current output through capital consumption cannot be termed an 'improvement in production' because it is capital consumption cannot be the consumption cannot be the consumption cannot be the capital consumption cannot be the capital consumption cannot be capital consumption. termed an 'improvement in production' because it is not sustainable in the long rule.

Improved productive capacity implies capital accumulation. Improved productive capacity implies capital accumulation, better utilization of productive resources, and an increase in productivity of works and a second control of the seco resources, and an increase in productivity of workers with a corresponding addition

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An improvement in the distribution of national income covers both 'efficiency' and 'equity' dimensions thereof. Efficiency in distribution relates to aggregate of satisfaction only, while equity relates to the sharing of aggregate satisfaction between members of the society. Normally, the two aspects are so intermixed and interdependent that a decision involving efficiency also affects equity and vice versa. The welfare aspect of distribution of national income, therefore, does not lend itself to an easy treatment. Quite often, we are not even able to find out whether certain decisions would add to the efficiency of distribution or not. In other cases, the efficiency and equity tests might clash, so that improvement in one leads to a deterioration in the other. It is not, therefore, possible to lay down full-fledged objective criteria of social advantage. But we can recommend some common-sense steps about which, on general grounds, there is not much chance of a difference of opinion. We can, for example, advocate reduction in inequalities of income and wealth, reduction in unemployment, uplifting the standards of living of the people, bringing about a higher rate of economic growth, bringing about economic stability in the economy and so on.

#### 2. Hicks' Tests

Mrs Hicks has also suggested two sets of criteria for judging whether a particular public finance operation or policy adds to the net social benefit or not. The first is called the production optimum and the second is the utility optimum.

According to Mrs. Hicks, an optimum in production is achieved if through reallocation of productive resources it is not possible to increase production of any given commodity without reducing that of some other. Obviously, this criterion is not only ambiguous but may also be misleading. Increasing production of one commodity may necessitate reducing that of the other, but the total output may increase. Mrs. Hicks' production optimum may apply in a situation of full employment and complete utilization of existing productive capacity. However, it must be noted that budgetary operations and policies are not always successful in achieving even these conditions. If they could, many of the economic ills of the world of today would not have been there. Again, this test of production optimum applies in short-term only. In the long run, it is always possible to augment productive potential of the economy such as through creation and expansion of social overheads, capital goods sector and investment in human capital.

Utility optimum of Mrs Hicks is related to the composition of the national output and relative importance of its components. A variation in this composition would automatically lead to a variation in the utility derived from it. When a stage is reached whereby such a variation in the utility derived from GDP cannot be increased, the utility optimum is said to have been achieved. The difficulty with this criterion arises out of the fact that utility and, therefore, the relative importance of various goods and services cannot be quantified. Furthermore, such measures of relative utility are always subject to revision over time and place and as also between individuals.

All said and done, we find that the basic idea contained in this principle is useful even when it is not possible to adopt it in strict quantitative terms. In line with the reasoning of this idea, we can proceed with the aim of increasing the usefulness of overall budgetary policy of the government for the society. To this end, we first equip ourselves with adequate theoretical knowledge and empirical evidence relating to the immediate and long-term repercussions of various budgetary measures. We have then to choose between various alternatives which budgetary policy may offer including, for example, the level of State activities, the composition of tax and non-tax revenues, tax

rates, and similar other considerations regarding the expenditure side of the budget. A these decisions have to be taken in the light of our objectives and the extent to which they can be achieved in practice. The optimum size of the government budget is not fixed quantity. It depends upon several relevant considerations, for example, the objective their practicability, their relative costs and benefits, the administrative capability of the government including the accounting system and programme and performance budgeting the institutional and economic framework of the society and the like.

#### 1.5 SUMMARY

- The main difference between public and private goods as well as the concept the public sector leads us to explore the vast field of public finance.
- To understand the meaning of public finance, it is first important to understand the meaning of public finance, it is first important to understand the meaning of public finance, it is first important to understand the meaning of public finance, it is first important to understand the meaning of public finance, it is first important to understand the meaning of public finance, it is first important to understand the meaning of public finance, it is first important to understand the meaning of public finance, it is first important to understand the meaning of public finance, it is first important to understand the meaning of public finance, it is first important to understand the meaning of public finance, it is first important to understand the meaning of public finance.

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  Descripti meaning of the words 'public' and 'finance'. The word 'public' stands for collection of individuals, whereas the word 'finance' means money resources of revenues. Therefore, 'public finance' means the resources of a public body.
- It must be noted that the State, according to the laissez-faire philosophy, will be less than the state of the laissez faire philosophy. considered as something extraneous to the economy, which was more or les equated with its private sector only.
- Carl C. Plehn, author of Introduction to Public Finance, says that the tent public finance that the tent of the country o public finance 'has come, by accepted usage, to be confined to a study of fund raised by governments to meet the costs of government.
- The scope of public finance involves a complete discussion of the influence fiscal operations of the government at the level of overall activity, employment prices and the growth process of the economic system as a whole.
- Musgrave has advocated an approach in which the state sector is viewed public household. Such a public household has certain objectives which can o Allocation of resources

  - Adjustments in the distribution of income and wealth
  - Stabilization of prices and employment.
- Since a modern government often operates at several levels (federal, state affine and affine and affine affin local), the subject matter of public finance looks into the financial problems policies of the government at different levels and also studies the inter-government
- The state sector is not just a necessary evil to be tolerated. It can be designed appropriately as an effective set of tools for investigation. operated as an effective set of tools for improving the performance of the economic in several ways.
- The concept of a balanced budget, in whatever way defined, becomes irreleval in a policy of using financial operations of the concept of a balanced budget, in whatever way defined, becomes irreleval in a policy of using financial operations. in a policy of using financial operations of the government exclusively as instrument of economic and public policy. of economic and public policy.
- By private finance, we mean the financial problems and policies of an individual economic unit (which does not form) economic unit (which does not form a part of State organs) as compared with

# Check Your Progress

- 5. What are the activities dealt with by the principle of maximum social advantage?
- 6. What are the aspects of economic welfare of the community?
- 7. Name the factors that are required for improving the distribution of national income.

- It is claimed that private finance follows the 'market principle', or the principle
  of economic rationality; but public finance follows the budget principle.
- Quite often, in private finance, the view taken is a short term one. In contrast, the State is expected to take a long-term view of the interests of the economy as a whole and be ready to suffer commercial losses for that purpose, both in the short run and in the long run.
- The first characteristic is that of excludability of a good. It means that it is possible
  to restrict the availability a good to select users on a certain basis, such as, by
  making it a priced good.
- Those goods which are both excludable and rivalrous are termed private goods or pure private goods. Their use can be rationed between their potential users. In contrast, goods which are both non-excludable and non-rivalrous are termed public goods or social goods.
- Pure public goods are characterized by the existence of externalities, that is, economic effects which flow from their production or use etc. to third parties or economic units. Such economic effects may also be called spill-over effects, neighborhood effects or third-party effects.
- Another likely characteristic of a pure public good is its decreasing average cost.
   Being lumpy, it would be subject to the economies of scale. If the public good is provided in small units, then the average cost is likely to be much more.
- The concept of club goods (also termed artificially scarce goods) was introduced by James M. Buchanan. They are a sub-set of local public goods and are characterized by an artificially created scarcity.
- The causal relationship between changes in the supply of money and the level of
  prices constitute the core of the quantity theory of money. In the classical economic
  theory, money has no inherent utility and it is exclusively demanded for the
  transactions purposes.
- The principle of maximum social advantage was introduced by British economist Hugh Dalton. According to Hugh Dalton, public finance is concerned with income and expenditure of public authorities and with the adjustment of one with the other.
- The principle of Maximum Social Advantage (MSA) is the fundamental principle
  of public finance. It states that public finance leads to economic welfare when
  public expenditure and taxation are carried out up to that point where the benefits
  derived from the MU (Marginal Utility) of expenditure is equal to (=) the Marginal
  Disutility or the sacrifice imposed by taxation.
- While imposition of tax puts burden on the people, public expenditure confers benefits. The benefit conferred on the society, by an additional unit of public expenditure is known as Marginal Social Benefit (MSB).
- Social advantage is maximized at the point where marginal social sacrifice cuts the marginal social benefits curve.
- Maximum Social Advantage is achieved at the point where the marginal social benefit of public expenditure and the marginal social sacrifice of taxation are equated, i.e., where MSB = MSS.

- The question arises that since the Principle of Maximum Social Advantage suffers from so many limitations, should we not discard it totally to which the reply is an emphatic no.
- An improvement in production should not be taken to mean an increase in current output as such, but basically an increase in the productive capacity of the economy on a sustainable basis.
- Mrs Hicks has also suggested two sets of criteria for judging whether a particular public finance operation or policy adds to the net social benefit or not. The first is called the production optimum and the second is the utility optimum.

#### 1.6 KEY TERMS

- Laissez-faire: It is the theory or system of government that upholds the autonomous character of the economic order, believing that government should intervene as little as possible in the direction of economic affairs.
- Taxation: It is a means by which government finance their expenditure by imposing charges on citizens and corporate entities.
- Revenue: It refers to an income that a company receives from its normal business activities, usually from the sale of goods and services to customers.
- Public goods: It is a good that is both non-excludable and non-rivalrous in that individuals cannot be effectively excluded from use and where use by one individual does not reduce availability to others.
- Externality: It refers to a cost or benefit which results from an activity of transaction and which affects an otherwise uninvolved party who did not choose
- Marginal cost: It is the change in the total cost that arises when the quantity

# ANSWERS TO 'CHECK YOUR PROGRESS' 1.7

- 1. The term 'public finance' denotes the resources of a public body.
- 2. The scope of public finance involves a complete discussion of the influence of fiscal operations of the government at the level of overall activity, employment prices and the growth process of the economic system as a whole.
- 3. Two dissimilarities between private and public finance are as follows:
  - The distinction between private and public borrowings does not end with only amounts of possible borrowings, but extends to their forms, rates of interest
  - It is claimed that prievate finance follows the 'market principle', or the principle of economic rationality; but public finance follows the budget principle.
- 4. Such goods which are neither pure public goods nor pure private goods are called impure public goods (also called quasi public goods or quasi private goods)
- 5. The principle of maximum social advantage deals with the size of the public budget the level at which the Secretary and the level at which the Secretary and the size of the public budget. budget, the level at which the State should operate or the boundaries of its activities

6. The aspects of economic welfare of the community are as follows:

Public Finance

- · An improvement in production.
- · An improvement in the distribution of national income.
- The factors required for improving the distribution of national income are efficiency and equity.

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# 1.8 QUESTIONS AND EXERCISES

# Short-Answer Questions

- 1. What are the similarities between public and private finance?
- 2. List the characteristics of public goods.
- Write a short note on club goods.
- 4. State the limitations of the principle of maximum social advantage.

## Long-Answer Questions

- 1. Discuss the nature and scope of public finance.
- 2. Explain the principle of marginal social sacrifice with the help of diagrams.
- 3. Interpret the following:
  - (a) Dalton's test (b) Hicks' Test

# 1.9 FURTHER READING

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#### Endnotes

- P.A. Samuelson, Pure Theory of Public Expenditure, in The Review of Economics and Statistics, Vol. 36, No. 4, Nov. 1954, pp. 387–389.
- 2. James M. Bucharian, The Public Finance, Richard D. Irwin, 1970, p. 25-26.
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Public Expenditure

# UNIT 2 PUBLIC EXPENDITURE

#### Structure

- 2.0 Introduction
- 2.1 Unit Objectives
- 2.2 Meaning and Scope of Public Expenditure
  - 2.2.1 Comparison between Private and Public Expenditure
  - 2.2.2 Kinds of Public Expenditure
- 2.3 Canons of Public Expenditure
- 2.4 Wagner's Hypothesis
- 2.5 Growth of Public Expenditure
  - 2.5.1 Growth Trends and Causes
- 2.6 Effects of Public Expenditure on Production and Distribution of Income
  - 2.6.1 Economic Stability and Economic Development
  - 2.6.2 Effect of Public Expenditure on Production
  - 2.6.3 Economic Distribution
- 2.7 Summary
- 2.8 Key Terms
- 2.9 Answers to 'Check Your Progress'
- 2.10 Questions and Exercises
- 2.11 Further Reading

# 2.0 INTRODUCTION

Public expenditure is spending made by the government of a country on collective needs and wants such as pension, provision, infrastructure, etc. It is supported by taxation. Its main objectives are to provide security to the country or states and promote the well-being of the citizens by proper allocation and efficient usage of resources according to strategic priority.

The revised estimate of fiscal deficit in 2016–17 was 3.2 per cent of the GDP, lower from a budgeted 3.5 per cent. It is expected to stay at 3.2 per cent in financial year 2018 and then down to 3.0 per cent in the following year, in accordance with the recommended 3.0 per cent fiscal deficit for the next three years by the newly constituted Fiscal Responsibility and Budget Management (FRBM) committee. The FRBM committee recommended a sustainable debt target with a debt-to-GDP ratio of 60 per cent per cent by 2023 and the fiscal deficit to come down to 3.0 per cent.

In this unit, you will study about the meaning and scope of public expenditure, canons of public expenditure, Wagner's Hypothesis, growth of public expenditure and effects of public expenditure on production and distribution of income.

# 2.1 UNIT OBJECTIVES

After going through this unit, you will be able to:

- Explain the meaning and scope of public expenditure
- Discuss the canons of public expenditure
- Analyse Wagner's Hypothesis

- · Interpret growth of public expenditure
- Evaluate the effects of public expenditure on production and distribution of income

# MEANING AND SCOPE OF PUBLIC 2.2 EXPENDITURE

Public expenditure refers to the expenses which a government incurs for (i) its own maintenance, (ii) the society and the economy, and (iii) helping other countrie In practice, however, with expanding State activities, it is becoming increasingly difficu to separate the portion of public expenditure meant for the maintenance of the government

Historically, public expenditure has recorded a continuous increase over time almost every country. However, traditional thinking and philosophy did not favour trend because it rated market mechanism as a better guide for the working of economy and allocation of its resources. It was argued that each economic unit was the best judge of its own economic interests and the government should not try to decided behalf of others. Furthermore, while a private economic unit was guided by its own economic interests, the public sector had no such motivation. Accordingly, its efficient was bound to be very low. Had this philosophy been practised in its entirety, publi expenditure would not have grown as rapidly as it did. In reality, however, the state could not ignore problems of economic growth and social injustice. It could not remain a silent spectator of the miseries of the people. This resulted in the acceptance several versions of socialist and welfare philosophy.

However, in spite of the fact that public expenditure has increased rapidly dutil the last two centuries or so in almost every State, and in spite of its growing role 3 importance in national economies, the area of public expenditure remains relative unexplored. As economist Lowell Harris says, 'the economists have general concentrated their attention on the theory of taxation. The theory of public expenditus has been more or less confined to that of generalities in terms of the effects of public expenditure on employment and prices etc.' Of course, it may be pointed out, that late this deficiency is being removed by various studies in the field of public expenditure

# 2.2.1 Comparison between Private and Public Expenditure

With regard to similarities between the public and private expenditures, we hypothesise that both private units and public authorities try to maximize returns per the of expenditure ( the returns being the objectives to be achieved ). Any shortfall on front will be on account of inefficiency, uncertainty, lack of foresight and similar oth causes. Another point of similarity between private and public expenditure is an element of the public expenditure is an eleme of flexibility, though it is generally more in the case of public expenditure is an entire and public authorities and public expenditure. Both priving economic units and public authorities take a collective view of the income, expenditu and the possibilities of adjustments in each. While an individual chooses between effort to earn and leisure, and a firm thinks of the cost of earning more and spending more and spendi more, the public authorities compare effects of additional revenue with those of expenditure. It must also be remembered that in each case there can be more than of way of raising additional income. The authorities, for example, can plan to raise

Public Expenditure

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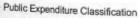
additional tax or nontax revenue, or borrowing or even raising taxation in various forms. There are, therefore, problems of overall efficient and integrated management of finances. They are related to the alternative ways in which finances can be raised, the efforts needed to raise them, the effects of such revenue efforts and the corresponding benefits of the expenditure which are to be incurred. It is also obvious that depending upon circumstances prevailing at the time, the net equilibrating solution will differ. While in some cases, a larger tax and expenditure level would be desirable, in others the amount indicated will be smaller. Similarly, in the case of private finance, we have different levels at which the solutions will be found.

However, while private and public expenditures are similar in their overall and complex ramifications, the *dissimilarities* between them are also quite glaring. The first such dissimilarity is the objective with which the expenditure is incurred. In the case of an individual economic unit, generally an exchange relationship determines the mode, pattern and volume of expenditure. As a consumer, an individual equates the marginal utility of the good (or service) purchased with the disutility of expenditure. A commercial economic unit compares private marginal returns from an expenditure with the amount spent. Public authorities, however, cannot and do not always adopt a commercial attitude towards their expenditure plans. They have to consider social benefits generated in the process of their expenditure activities. And in quite a few cases these benefits are vague and immeasurable. The State has to impute social valuation to these benefits and decide whether it is worthwhile undertaking these expenditures or not. Also, certain state expenditures are directed at bringing about social and economic justice. The benefits of such state expenditures cannot be evaluated directly.

Keeping in view the fact that the State is the guardian of social welfare and economic and social health of the society, provision for many public services is not decided on the basis of their cost effectiveness. Moreover, an individual has a limited horizon covering only a foreseeable future. The State, on the other hand, takes a much longer view. For this reason, the State may adopt even a policy of permanent budgetary deficit. A private economic unit cannot do so. The objectives of public expenditure are now far wider than imagined earlier.

# 2.2.2 Kinds of Public Expenditure

It is conventional to classify public expenditure into various economic categories. Accounting classification has been there for centuries because it enables the State executive to maintains an effective control and check over public expenditure and possible leakages and wastage, diversions and misappropriations. It may be departmental classification or classification according to heads of expenditure. Such a classification is good for auditing and for safeguarding against misappropriations and so forth, but it does not help us in understanding its effects. It is, therefore, difficult to formulate an appropriate expenditure policy on this basis. In the same way, a distinction between obligatory (or legally committed) expenditure and optional expenditure can only highlight the constraints under which the government's budgetary policy has to work. It cannot bring out fully the possible effects of different expenditure policies. These days, however, an increasing need for useful and effective classification of public expenditure is felt. It is only through such classification that the economic effects of various State activities can be gauged and proper policies formulated. Here, however, we can take up two classifications of public expenditure, each of them indicating an area of possible effects on the economy.



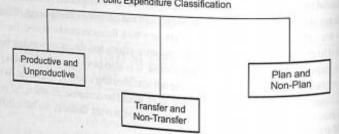


Fig. 2.1 Classification of Public Expenditure

# Productive and Unproductive Expenditures

This distinction emphasises that while some expenditures are in the nature of consumptions others are in the nature of investment. others are in the nature of investment and help the economy in improving its productive capacity. Under the laissez-faire phila capacity. Under the laissez-faire philosophy, the only productive public expenditures are those which are incurred to create an area of the create and the create area of the create and the create area of the create area of the create area. are those which are incurred to create and maintain social overheads. Expenditures administration, defence, justice law of the State of administration, defence, justice, law and order, and maintenance of the State and unproductive. Adam Smith believed the unproductive. Adam Smith believed that an economy added to its productive capacity the long run only through additions to it. the long run only through additions to its capital stock and production of tangible goods. If we extend this logic to public expenditudes and production of tangible goods. If we extend this logic to public expenditure, it will follow that only those public expenditures are productive which creat. expenditures are productive which create some tangible assets in the economy and classical thirt. enable it to produce more in future. Some people would like to adhere to the alien to the government. classical thinking in which the government sector is considered as something foreignable which add to the alien to the economy proper. In this case, only those public expenditures are productive tangible assets of the government sector is considered as something foreign which add to the tangible assets of the government tangible assets of the gover which add to the tangible assets of the government, or more precisely income yieldiff government would be government, or more precisely income yieldiff government including a second to the government including the government would be government. tangible assets of the government, or more precisely income yield government would be charging for the government including public enterprises of commercial type.

Depending upon the government and the government including public enterprises of commercial type. government would be charging for the services of those enterprises to pay for the partially or fully salf it. Depending upon the pricing policies and other factors, such public expenditures may be partially or fully, self-liquidating. They could are such public expenditures may be such public expensions and public expensions are such public expensions and public expensions are such public expensions.

partially or fully, self-liquidating. They could even be a source of profit for the authorite the government. It is obvious that the foregoing analytical framework is totally unrealistic. Basical dered as such A. a part and parcel of the analytical framework is totally unrealistic. the government sector is a part and parcel of the economy as a whole and must government or to that act of the government or to that act of the economy as a whole and must government or to that act of the economy as a whole and must government or to that act of the economy as a whole and must government or to that act of the economy as a whole and must government or to that act of the economy as a whole and must government or to that act of the economy as a whole and must government or to that act of the economy as a whole and must government or to that act of the economy as a whole and must government or to that act of the economy as a whole and must government or to the economy as a whole and must government or to the economy as a whole and must government or to the economy as a whole and must government or to the economy as a whole and must government or to the economy as a whole and must government or to the economy as a whole and must government or to the economy as a whole and must government or to the economy as a whole and must government or to the economy government or to the economy as a whole and must government gov considered as such. Accordingly, whether an asset is added to the ownership of deciding about the product sector about th government or to that of the private sector should not be the determining factor secondly it.

deciding about the productiveness or otherwise of any public expenditure. Secondly, it would also follow that there are many assets which do not yield the economy secondly which would be to the government, but which would be constructed to the economy second income to the government, but which would be really necessary for the product of any normal commercial const. efficiency of the economy. Such assets ought to be termed productive even thought and services which add. normal commercial considerations they are not. Parks, waterworks and similar governments and expenditure assets and expenditure afficient and services which add to the productive efficient and services and expenditure assets assets and expenditure assets and expenditure assets and expenditure assets as a second to the productive assets and expenditure assets as a second to the productive as and services which add to the productive efficiency of the economy must be viewed; and expenditure. Such public even the productive on their cross. productive assets and to the productive efficiency of the economy must be viewed expenditure. Such public expenditure on their creation and maintenance as the productive to collect assets and expenditure is, therefore expenditure. Such public expenditure on their creation and maintenance as the productive manner. There will be an increase in the national manner. There will be an increase in the national product and the authorities will be a find the national product and the authorities will be tax rates or the national product and the authorities will be tax rates or the national product and the authorities will be tax rates or the national product and the authorities will be tax rates or the national product and the authorities will be tax rates or the national product and the authorities will be tax rates or the national product and the authorities will be tax rates or the national product and the authorities will be tax rates or the national product and the authorities will be tax rates or the national product and the national product

to collect, even without raising the tax rates or their coverage, an additional revenues tangible form only such Thirdly, it is not necessary that the so called productive assets must be in the form only such as buildings, machines.

If through tangible form only such as buildings, machinery and the like. The productive power of the forms. If through education the form of human wealth. the society can reside in the form of human wealth also. It can manifest itself in different terms, training, health be so the society can manifest itself in different terms. forms. If through education, training, health, better living conditions, hetter

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relations and other factors, the working population of the country can add to its productive power, the expenditure on such items should certainly be termed productive. Even if some of these expenditures do not add to the productive effort and national income, they will be adding to the enjoyment of the people. Of course, just as some tangible assets can be useless, so can be some expenditures on particular types of education and training. But that is a question of choosing proper forms of education and training which would be useful for the economy.

Fourthly, there are certain public expenditures without which the economy cannot live and cannot maintain its productivity. Rather in many cases such expenditures indirectly help the economy in attaining higher levels of productivity. Examples are those of defence expenditure, expenditure on research and so on. Even efficient administration, communication and other infrastructural facilities indirectly add to the health and efficiency of the economy. Similarly, some institutions and work culture enhance the economy's productivity while others retard it. Therefore, a precise distinction between productive and unproductive public expenditure is not an easy task. Each case has to be judged on its own merits. Basically, we may take the position that any wasteful and avoidable expenditure is unproductive, while all the necessary and relevant expenditure is productive.

### Transfer and Non-transfer Expenditures

This classification was favoured by English economist Pigou. Transfer expenditure is a payment without corresponding receipt of goods and services by the State. Examples are interest payments, oldage pensions and unemployment benefits. In these cases, the government is simply transferring the right or claim to use the goods and services to certain sections of the society. In contrast, non-transfer expenditure is that by which the State pays for its purchases or use of goods and services. While in the case of transfer expenditure, the beneficiaries are to decide about the use of real resources, in the case of non-transfer expenditure, it is the State which uses the resources straightaway. Such a use of resources by the State, of course, may be for consumption purposes or for investment purposes. Expenditure on defence, education and such like things are all of non-transfer or real expenditure type as are the investment expenditures. It must, of course, be remembered that when the government incurs a real expenditure, it is not implied that the government will necessarily purchase at the market rates. For one reason or the other, the government may be purchasing at concessional rates or at non-economic rates.

#### Expenditure classified as Plan and Non-Plan Expenditure

Plan expenditure in the government, generally, signifies expenditure taken up under development schemes during a particular Five Year Plan. However, some of these schemes can be continued from a previous plan or some may be 'spill-overs'. At the initial stages of the exercise of preparation of a Five Year Plan, Planning Commission issues detailed instructions directing what should be classified as 'Plan Expenditure'. The plan schemes are mostly expected to be limited to a Five Year Plan period. However, they may have implications that may extend beyond the plan period.

## Major issues relating to plan/non-plan distinction

Due to the complex nature of Government, the policy regarding what should get classified as plan expenditure and what should get classified as non-plan expenditure has been losing clarity. Besides, a notion has widely gained ground among the policy makers and

officials across all levels that plan expenditure is good and non-plan is bad. This bias it favour of Plan expenditure and against non-plan expenditure has led to a situation if which essential non-plan expenditure like maintenance of assets is neglected. This ha also led to a motivation for showing higher plan expenditure and higher plan sizes both<sup>8</sup> Central and State levels. Further, several factors such as shift of plan focus from capital to revenue expenditure and the process of transferring expenditure of old schemes to non-plan at the end of each Five Year Plan mean that correspondence cannot be draw between plan and development expenditure.

The plan/non-plan bifurcation of expenditure has contributed to a fragmente view of resource allocation to various programmes/ schemes. With fragmented view. is difficult not only to ascertain the cost of delivering a service but also to link outlays! outcomes. Outcomes and outputs of programmes depend on total expenditure, plan and non-plan put together and not merely on plan expenditure which constitutes about 30 pt cent of the total expenditure only. To conclude, plan and non-plan distinction in the budget is neither able to provide a satisfactory classification of developmental and  $n^{of}$ developmental dimensions of Government expenditure nor an appropriate budgetal framework. It has, therefore, become dysfunctional.

Thus, it is recommended that plan and non-plan distinction in the budget should removed. At the central government level, Planning Commission may be responsible, fi the sake of convenience and domain knowledge, for guiding the overall developme priorities of the government, setting of outcome targets and review of performance ministries/departments. Ministry of Finance may be responsible for guiding the fisc policy, preparation of budget and financial decisions. Planning Commission may responsible for consolidation of the Five Year Plan covering all services based on inputs from the Ministry of Finance. The annual budgeting process may need to revised to facilitate output and outcome-based budgeting within a multi-year framework

# Revenue and Capital Expenditure

Another way to classify public expenditure is to categorize them as either revenue expenditure or capital expenditure. An expenditure which either creates an asset (c.) school building) or reduces liability (e.g., repayment of loan) is called capital expenditule On the other hand, the costs related to specific revenue transactions or operating period such as maintenance expenses are known as revenue expenditures. For the Government of India, revenue expenditure encompasses salaries of government employees, interf payment on loans taken by the government, pensions, subsidies, grants, rural development education and health services, etc. It is a short-term expenditure that is incurred ever year. Capital expenditure encompasses things such as building schools, hospital purchasing land, investing in shares, plant machinery, and so on. Capital and reven

# Current scheme of classification of public expenditure in India

The expenditure of the government is classified into functional heads. The functional heads. The functional heads are the function of the government is classified into functional heads. classification signifies broadly the function of government for which the expenditure been incurred and the activity on which the been incurred and the activity on which the expenditure has been incurred. The function classification being followed as of now is a conditure has been incurred. The function classification being followed as of now, is a six tier structure with a hierarchy of major minor, sub-head, detailed bands on the structure with a hierarchy of major. sub-major, minor, sub-head, detailed heads and object head. The first tier of the function classification, called the major head danger at classification, called the major head denotes the functions of the government that discharged through the expenditure. The same that the same of the government that the gover discharged through the expenditure. The second tier of functional classification provides the description of sub-functions. The third time to functional classification provides the description of sub-functions. the description of sub functions. The third tier, denoted by the minor head, indicates

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objective of the government being achieved through that particular expenditure. Below the minor head are the two tiers of sub heads (fourth tier) and detailed heads (fifth tier). The sub head indicates specific schemes or activities of the government under which the expenditure has been incurred and the detailed head indicates various components of the schemes or sub schemes. The sixth tier of object head provides details about the object of expenditure. Thus, this forms a two dimensional classification where the expenditure is classified into object heads for each functional head. The division provided by plan/non-plan classification is laid over the functional and object classification. This division cuts across the entire classification hierarchy into two columns.

## 2.3 CANONS OF PUBLIC EXPENDITURE

Like canons of taxation, people have propounded canons of public expenditure also which should govern the public expenditure decisions. They reflect the philosophy of a judicious use of public funds with associated legal propriety. Some of these canons are in the nature of administrative safeguards while others are expected to help the economy and society in achieving their diverse objectives. It, of course, goes without saying that these canons are only broad generalizations and detailed guidelines have to be worked out in each specific case.

1. Canon of economy: The resources of the economy are always scarce compared with its needs. No wastage should, therefore, be permitted. Public expenditure is the financial counterpart of the resources which the government uses up directly or places at the disposal of certain sections of the society for this purpose. It is, therefore, essential that the process of public expenditure should not involve the use of resources more than what are just necessary. Utmost care must be taken to avoid wasteful usage of public funds. And as the sphere of government activities increases both in coverage and quality, it becomes all the more difficult to judge the exact type and extent of wasteful expenditure. Therefore, still greater care and a scientific approach towards the assessment of the required expenditure is needed. Techniques like those of programme and performance budgeting and zero base budgeting have been developed to meet these objectives.

One form of wastage of public expenditure is the delay that often accompanies in formulating the plans of public expenditure, their sanction and their execution. On account of the faulty planning and execution and the delays involved, some benefits are lost; or to put it differently, for given benefits the authorities pay more. Furthermore, on account of delays, when prices are rising, costs themselves go up. These days, various costing methods have been evolved for continuous check on various cost elements of projects, especially the manufacturing ones. The authorities also use these methods in a number of such projects. In quite a few projects, the cost benefit approach is adopted in which the social cost and social benefits of a project are estimated (including an imputed valuation of the intangible social costs and benefits) and then the worthwhileness of the project is decided. It must, however, be noted that the techniques of costing and cost benefit analysis are not applied to all the items of public expenditure. And there are certain expenditures which are contractual. The authorities are under obligation to incur them (such as interest on public loans) and the question of economy in their use just does not arise.

## Check Your Progress

- Define public expenditure.
- Name the kinds of public expenditure.

- 2. Canon of sanction: This canon asserts that no public funds should be used without proper authorization and further that funds must be used only for the purpose for which they have been sanctioned. In a democratic set up, it is the legislature which sanctions the expenditure on demand by the executive authorities. The idea is that such a restriction would avoid unscrupulous and unwanted expenditure and will also be a check against misappropriation of funds. Given the authority by the legislature, detailed authorisations are worked out and at each stage the spending unit has to have the sanction and approval of the appropriate authorities. Since, however, there can always be emergencies and delays in getting the sanction of the legislature for additional funds, a certain flexibility is granted in a number of cases up to a margin.
- 3. Canon of benefit: This is clearly related to the canon of economy. Actually economy of expenditure is a relative term and not an absolute one. Any expenditure is to be viewed against the benefits that will accrue from it. Canon of benefit also says that the public expenditure should be incurred only if it is beneficial to the society.
  - Now the beneficial nature of public expenditure can manifest itself also in the form of various effects on income and wealth distribution, effects on production and so on. In the final analysis, this canon leads the authorities to observe the principle of maximum social advantage. The additional consideration here would be that it may be possible to reallocate the same public expenditure between different items in a manner which increases social benefit. The authorities should therefore, try to choose that combination of items for public expenditure which collectively maximize the social benefit.
- 4. Canon of surplus: This canon should actually be interpreted to mean that the government should avoid deficit budgeting, at least a persistent one. It should always try to be prudent and should aim at meeting its current expenditure needs out of its current revenue. It should not overspend and run into a debt. Since it is directed at achieving a moderate surplus. Such moderate surpluses during some years will take care of reasonable but unavoidable deficits during other years. It on account of war, or other factors, a large deficit has to be incurred, then the government should try to pay off its debts as soon as possible.

This canon, however, no longer finds favour with the fiscal authorities or with economistic in general. This canon was an offshoot of the laissez-faire philosophy. These days however, the regulatory role of the government is recognized in an increasing measurement is recognized in an increasing measurement of the case. Thus, during depression in a developed country, the government would do well to run into a deficit to stimulate demand and production. Objectives of mobilization and economic growth may necessitate even recurring deficits. Resource is a concealed taxation through which the government appropriates additional resource barter sector of an underdeveloped economy gets increasingly monetised while the financial and credit structure of the economy must also develop along healthy and efficient debt, provides the necessary credit base.

In recent years, some academicians have added to the canons of expenditure. A brief description of these canons is as follows:

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- Canon of maximum social benefit: Ideally, each component of public expenditure
  should aim at maximizing aggregate social benefit, that is, satisfying one fundamental
  principle of Maximum Social Advantage. In practice, application of this criterion
  poses several difficulties including the identification and quantification of the
  expected benefit, the efficiency with which public expenditure is incurred, the
  alternative ways in which it could be spent, the conflicting interests of different
  social groups, and so on. In general, a good deal of subjectivity (discretion) is
  involved in deciding the best way of spending public money.
- 2. Canon of elasticity: This means that there should not be any rigidity in spending public funds. It should be possible to bring about necessary changes in it in response to changing circumstances and situation. This objective, however, comes in conflict with the fact that there has to be an overall and tight control over each piece of public expenditure and functionaries of the government cannot be given complete discretionary powers to use public funds as per their personal judgement and preference.
- 3. Canon of balanced budget: This principle does not command universal acceptability. In a way, it says that the government should allow the market forces to work without intervention. In contrast, some thinkers recommend that the government should take active part in modifying the working of demand and supply forces and thereby aim at facilitating the achievement of some of the socio-economic objectives like accelerating economic growth, improving income and wealth distribution, stimulating employment, helping some specific economic sectors, and so on. To this end, therefore, if the government requires a surplus or a deficit budget, it should proceed with it. However, it is also recognized that persistent high surplus or high deficit budgets go against the objectives for which they are adopted. It should be remembered that even a balanced budget is not neutral and can interfere in the working of market forces because of (i) the size and manner of collecting revenue and (ii) the size and manner of public expenditure,
- Canon of optimizing production and distribution: It is claimed that public
  expenditure must work out a proper control on both production and distribution of
  income and wealth in the society.

It is noteworthy that several of the canons of public expenditure conflict with each other. The starting point for formulating these canons is to decide whether the government should pursue a policy of total non-intervention and let the ill-effects of 'market failures' go unchecked, or whether it should adopt a specific set of objectives of public expenditure. Even in the latter case, it is not necessary that the public expenditure policy should always aim at a balanced, a surplus or a deficit budget and the size and composition of this imbalance. Every government would therefore, take decisions in the context of various detailed objectives, legal provisions and its own capacity.

## 2.4 WAGNER'S HYPOTHESIS

There are two important and well known theories of increasing public expenditure which we shall be discussing below. The first one is connected with Wagner and the other with Wiseman and Peacock.

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## Check Your Progress

- 3. What does the canon of elasticity denote?
- 4. What does the canon of optimizing production and distribution stands for?

## 1. Wagner's Law of Increasing State Activities

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Adolph Wagner (1835–1917) was a German economist who based his Law of Increasing State Activities on historical facts, primarily of Germany. According to Wagner, there are inherent tendencies for the activities of different layers of a government (such as central and state governments) to increase both intensively and extensively. There is a functional relationship between the growth of an economy and government activities with the result that the governmental sector grows faster than the economy. From the original version of this theory it is not clear whether Wagner was referring to an increase in the following:

- (i) Absolute level of public expenditure
- (ii) The ratio of government expenditure to Gross National Product (GNP)
- (iii) Proportion of public sector in the total economy

Musgrave believes that Wagner was thinking of (c) above. F. S. Nitti not only supported Wagner's thesis but also concluded with empirical evidence that it was equally applicable to several other governments which differed widely from each other. All kinds of governments, irrespective of their levels (say, the central or state governments) intentions (peaceful or warlike), and size had exhibited the same tendency of increasing public expenditure.

A number of reasons can be enumerated for this inherent long-term tendency recorded in history.

- (i) An expansion in the traditional functions of the State: Defence became increasingly more expensive over time. Within the country, administrative set kept increasing both in coverage and intensity. The government machines had to be manned by experts in their fields. With the progress of society administration of the government, and its services had to become increasingly more extensive, cumbersome and expensive so as to retain efficiency.
- (ii) State activities were increasing in coverage: Traditionally they were limited to only defence, justice, law and order, maintenance of the State and social overheads. But with growing awareness of its responsibilities to the society of socio-economic welfare. These measures included efforts to enrich cultural life of the society and provision of social security to the people various merit goods also registered an increase. Most governments also inequalities.
- (iii) The need to provide and expand the sphere of public goods received an increasing attention: The State tried to shift the composition of national of investment activity of the government.

Wagner's Law was based upon historical facts. It did not reveal the inner compulsions under which a government has to increase its activities and public which were interested in expanding public sector of the economy for its overall benefit in the short-run, financial difficulties could come in its way. 'But in the long-run the

desire for development of a progressive people will always overcome these financial difficulties.'

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Thus, Wagner was emphasising long-term trend rather than short-term changes in public expenditure. Moreover, he was not concerned with the mechanism of increase in public expenditure. Since his study is based on the historical experience, the precise quantitative relationship between the extent of increase in public expenditure and time taken by it was not fixed in any logical or functional manner. His contention that public expenditure had been increasing over time, could not be used to predict its rate of increase in future. Actually, it is consistent with Wagner's law to state that in future the state expenditure would increase at a rate slower than the national income though, factually speaking, it had increased at a faster rate in the past. Thus, in the initial stages of economic growth, the State finds that it has to expand its activities quite fast in several fields like education, health, civic amenities, transport, communications and so on. But when the initial deficiency is removed, then the increase in State activities may be slowed down.

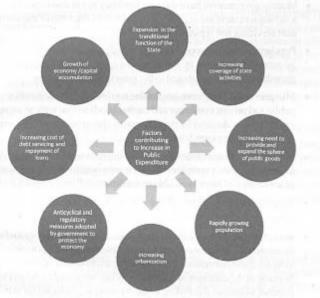


Fig. 2.2 Factors Resulting in Increase in Public Expenditure

Additional Factors which contribute to the tendency of increasing public expenditure relate to a growing role of the State in ever-increasing socio-economic complexities of modern society.

- Many societies are experiencing a growing population which becomes a major contributory factor in the growth of public expenditure. The sheer scale of state services has to increase to keep pace with population growth, including, for example, more schools, hospitals, and police stations.
- Most countries have registered increasing urbanization. Existing cities grow and new ones come up. Urbanization implies a much larger per capita expenditure on civic amenities. It necessitates a much larger supply of incidental services like those connected with traffic, roads and so on.

- Prices have a secular tendency to go up. This also adds to public expenditure even if the scale of state services remains unchanged.
- The size and nature of public services necessitates an ever-increasing specialization. The quality of the services improves, both as a historical facas also due to circumstantial compulsions. Better quality services and high qualified administrators, technicians and so forth, imply a higher cost of providing public services. Also, the government has to purchase a number of goods and services for its own maintenance. With rising prices, expenditure on them also goes up.
- A modern government considers it a part of its duty to protect the econom from the 'failures' of market mechanism. Accordingly, anticyclical and other regulatory measures are adopted. Efforts are made to reduce the income an wealth inequalities and bring about social and economic justice which, in tuff add to public expenditure.
- Modern governments have shown a tendency to run into debt and this leads a subsequent increase in public expenditure in the form of increasing cost debt servicing and repayment of the loans.
- Popularity of the philosophy of planning and economic growth as also increased government activities in the areas of capital accumulation and economic growth have also contributed to the growth of public sector.
- Musgrave and Musgrave emphasise a growing complementarity between public and private consumer and capital goods so that with an increase in capita income, demand for public services also increases with a corresponding growth in public expenditure.
- There is an inherent tendency of vested interests to develop which demands increase in public expenditure for their own benefit. For this reason, a varie of subsidies and other avoidable expenditures inflate the public budget.
- It is claimed that government bureaucracy has an inherent tendency to expan irrespective of the size and nature of public services provided by it.
- Recent investigations have brought into focus productivity and efficient dimensions of government organs and public undertakings as also the mann in which these dimensions push up public expenditure. Specific mention 101 be made of the concepts of 'productivity lag' advanced by Allan Peacock 3 Baumol's Disease. According to these concepts, public sector is less efficie and productive than the private one, and tends to be more labour intensive overstaffed). Similarly, an element of avoidable inefficiency and, therefol cost (termed X-inefficiency) creeps in due to poor supervision, nonfixation responsibility, noncheck on output of individual employees and nonquantification
- At the same time, there is a myth that the individuals can voluntarily together to resolve market deficiencies without government intervention known as coase fallacy. The myth is explained by Fundamental Decentralizability Theorem expounded by B. Greenland and J. Stiglitz-

Wagner's model has an important analytical limitation which can be removed an expanded version. A government is not a monolithic entity. It comprises a number organs and associated institutions. However, the comprises a number of the comprises a number of the comprises and associated institutions. organs and associated institutions. Households and business units in the private sections. also do not observe government activities passively. Instead, they respond to them to actively. Thus, the government decision-making has become a complex phenomenon and has multifarious tendencies to increase public expenditure.

Buchanan and Tullock, in the context of US experience, have viewed Wagner's theory in terms of increasing discrepancy between growth of government expenditure and government output and termed the phenomenon as 'Wagner Squared' hypothesis. They base their argument on two facts. Firstly, in contrast with the situation prevailing in the private sector, expenditure on civil servants grows faster than the corresponding increase in their output. Secondly, with increasing social security and other measures, the proportion of population receiving transfer payments from authorities keeps increasing. This way, public expenditure increases both in absolute terms and as a proportion of national income. It may be noted that even if the expenditure on civil services as a proportion of expenditure on employees in the private sector does not increase, and even if the proportion of population receiving transfer payments remains stable, the Wagner Squared hypothesis would hold. The major limitation of this hypothesis is that output of public servants cannot be measured with any degree of accuracy.

Alan Tait Peacock does not agree with this explanation of Buchanan and Tullock. He says that a typical individual does not relate his tax payments with the receipt of government services. He considers his tax liabilities as they are and strives for additional public services; that is, he fights for additional opportunities for milking government services and not for reducing taxes. The politicians, to win their votes, try to expand government services and, therefore, impose more taxes. The government expenditure keeps on increasing without any reference to productivity/cost ratio of government services.

We may add that modern governments have found new weapons whereby to increase their expenditure even without collecting more taxes. They now own public undertakings which can be a source of revenue to them. But more important than that is their capacity and willingness to resort to deficit financing. Even in advanced countries deficit financing has become a common occurrence. The public opinion is not strong enough to check this sort of policy even though it has disastrous inflationary effects.

#### 2. Wiseman-Peacock Hypothesis

The second thesis dealing with the growth of public expenditure was put forth by Wiseman and Peacock in their study of public expenditure in UK for the period 1890-1955. The main thesis of the authors is that public expenditure does not increase in a smooth and continuous manner, but in jerks or step like fashion. At times, some social or other disturbance takes place, creating a need for increased public expenditure which the existing public revenue cannot meet. While earlier, due to an insufficient pressure for public expenditure, the revenue constraint was dominating and restraining an expansion in public expenditure, now under changed requirements such a restraint gives way. The public expenditure increases and makes the inadequacy of the present revenue quite clear to every one. The movement from the older level of expenditure and taxation to a new and higher level is the displacement effect. The inadequacy of the revenue as compared with the required public expenditure creates an inspection effect. The government and the people review the revenue position and the need to find a solution of the important problems that have come up and agree to the required adjustments to finance the increased expenditure. They attain a new level of tax tolerance. They are now ready to tolerate a greater burden of taxation and as a result the general level Public Expenditure

of expenditure and revenue goes up. In this way, the public expenditure and revenue go stabilized at a new level till another disturbance occurs to cause a displacement effect Thus, each major disturbance leads to the government assuming a larger proportion of the total national economic activity. In other words, there is a concentration effect. The concentration effect also refers to the apparent tendency for central government economic activity to grow faster than that of the state and local lev governments. British data are consistent with this hypothesis, but its application to oth countries needs verification. Moreover, this aspect of concentration effect is also close connected with the political set up of the country.

On the face of it, Wiseman Peacock hypothesis looks quite convincing. But must remember that they are emphasising the recurrence of abnormal situations with cause sizeable jumps in public expenditure and revenue. In all fairness to the historic facts, we must not forget that on account of advancement of the economy and structural changes therein, there are constant and regular increments in public expending and revenue. Public expenditure has a tendency to grow on account of a systemal expansion of the public activities as also an increase in their intensity and quality. Increase population, urbanization and an everincreasing awareness of the civic rights on the of the public, coupled with an increasing awareness of its duties on the part of the Stp leads to an upward movement of public expenditure. To an extent public expenditure gets financed by ever increasing revenue which is made possible through the expansi and structural changes in the economy. These days, in underdeveloped countries India, the State is deliberately trying to increase its activities and makes an effor finance those activities through various tax efforts. Even in developed countries, State finds that it has to perform an increasing regulatory duty to protect the econor against instability and excessive inequalities of income and wealth. Thus, Wisen Peacock hypothesis is still a description of a particular tendency and does

It must be emphasized that apart from various factors like population grown defence expenditure, urbanization, rising prices and other factors, which by themselves push up public expenditure, an important additional contributory force is the failure market mechanism in achieving various socio-economic objectives of the country. Inheritation deficiencies of market mechanism make the economy a prey of economic instabilities and wealth inequalities does not be a seconomic instabilities and the seconomic instabilities are seconomic instabilities and the seconomic instabilities and the seconomic instabilities and the seconomic instabilities and the seconomic income and wealth inequalities, defective patterns of consumption, employment investment and so on. In a number of cases, the market mechanism is not able to pulled a rate of the control of the vicious circle of the cases, the market mechanism is not able to pulled the control of the control of the cases. economy out of its vicious circle of poverty and launch it on a path of secular and rate economic growth. Therefore the covern and launch it on a path of secular and rate of the covern and rate of the cover economic growth. Therefore, the government is forced to increase its field of activity with a corresponding increase in public expenditure. 2.5

# GROWTH OF PUBLIC EXPENDITURE

The objective of contemporary public expenditure is to focus on improving institution arrangements and management practices to focus on improving institution arrangements and management practices to create incentives for better resource use and financial management allocation, resource use and financial management. allocation, resource use and financial management. These objectives are based on traditional fiscal policy and newly introduced in the confective are based on the confective and the confective are confective. traditional fiscal policy and newly introduced institutional development. The objective of public expenditure are as follows: Fiscal discipline

- Resource allocation according to strategic priority (allocative efficiency)

## Check Your Progress

- 5. What was Wagner's law of increasing state activities?
- 6. What is the Wiseman-Peacock hypothesis?

 Effective and efficient usage of resource according to strategic priority (operational efficiency)

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The role of public expenditure in the fiscal policy goals of growth, equity and stability, has varied across different phases of economic development in India. The historical importance of public expenditure lies in the mixed economy model adopted after Independence in India whereby the government assumed the primary responsibility of building the capital and infrastructure base to promote economic growth. The concerns regarding equity and poverty alleviation after two decades of Independence added another important dimension to public expenditure in terms of redistribution of resources. The inadequate returns on capital outlays and the macroeconomic crisis of early Nineties arising out of high fiscal deficit shifted the focus of public expenditure to efficiency in its management for facilitating adequate returns and restoring macroeconomic stability. While the fiscal policy goal of stability could be achieved, the modus operandi of public expenditure management through curtailing capital expenditure raised concerns about infrastructure investment and its impact on the long-term growth potential of the economy. Furthermore, stagnating revenue mobilization in particular and some upward movements in expenditures led to a reversal of the fiscal stabilization process since the second half of the Nineties. An improved fiscal performance during 2003-04 engendered by containment of the non-plan expenditures and supported by high revenue mobilization on the back of buoyant real activity paved the way for renewed commitment towards fiscal consolidation in India.

Study of management of public expenditure by state governments in India is highly relevant as:

- There is need for appreciation of the fact that the character of expenditure, rather
  than the size of the deficit is more important and that the composition of the
  budget and direction of expenditure influence the growth of GDP and that the
  level and patterns of expenditure as well as the means through which resources
  are raised directly affect the income and expenditure streams.
- Analysis of transactions on revenue and capital accounts, at the Centre reveals
  that revenue surplus covered to a significant extent the capital deficit till the
  eighties. However, the trend reversed in the nineties with the emergence of capital
  surpluses and revenue deficits, reduction in capital expenditure and increasing
  borrowings and debt liabilities in the latter years.

#### 2.5.1 Growth Trends and Causes

The fundamental strategy for boosting growth in the Indian economy was to assign a lead role for the public sector in building the capital base of the country. The effect of Mahalanobis model, adopted in Second Five Year Plan (1955-56 to 1960-61) is visible in the capital formation in the public sector comprising central government, state governments and public sector undertakings.

## An overview of public sector investment and consumption

Public sector investment and consumption expenditure have constituted important constituents of effective demand in the Indian economy. The investment process was initiated in the planning period with the public sector being in charge of the 'commanding-height' of the industrial sector, representing infrastructure, heavy industries and defence that required heavy dozes of capital formation.

The spurt in public investment during the late Seventies reflected government response to the second oil shock by expansionary adjustment through increased investment and reorienting investment for boosting oil production and removing infrastructure constraints. However, in the wake of two successive monsoon failures in 1986 an 1987, the government had to resort to expenditure cuts that affected capital formation Since the mid-Eighties, the public sector capital formation slackened which, however did not narrow the saving-investment gap of the public sector as the public sector saving-investment gap of the public sector as the public sector saving-investment gap of the public sector as the public sector saving-investment gap of the public sector as the public sector saving-investment gap of the public sector as the public sector saving-investment gap of the public sector as the public sector saving-investment gap of the public sector as the public sector saving-investment gap of the pu deteriorated more rapidly than investment. The asset-wise distribution of public sections capital formation shows the predominance of investment in construction rather that machinery and equipment reflecting its greater accent on infrastructure . A notewort feature has been a decline in the share of construction in the gross fixed capital formation in the public sector with a corresponding increase in that of machinery and equipment to the Nineties which has somewhat reversed thereafter reflecting renewed emphas on infrastructure.

Up till the mid-eighties, public sector consumption witnessed an upward tree that reflected the overall expansion in the government sector. Since the mid-eightif public sector consumption has shown sporadic episodes of expansion resulting from revision of government employees' salaries and wages. Many economists have rais concerns regarding the sustainability of the growth process in the late nineties. T public sector outlays reflected the change in government strategy regarding development and growth process. Simultaneously, the government's role was rational allowing market forces to have a greater role. There were serious implications arisi from the increased borrowings and monetisation of government deficits on the over investment and growth of the economy. This was evident from the macroeconoff crisis occurring in the early nineties. This resulted in the need of fiscal consolidation a number of measures in terms of government expenditure and revenue. However, to the need of aligning tax rates with international standards revenue enhancements restrained and, therefore, the fiscal correction was done mainly from the expenditor

The Public Sector Investment Programme (PSIP) is one of the key developing policy instruments and strategic management tools to translate the national developing objectives of the government into viable programmes and projects which are intended achieve the country's social and economic development goals and enhance the qual of life of all citizens. In 2015 the government continued with its three-year Public Section 1997 Investment Programme for the period 2015-2017, reflecting a rolling three-year investment portfolio of capital projects aligned to the period 2015-2017, reflecting a rolling three-year investment of the period 2015-2017, reflecting a rolling three-year investment of the period 2015-2017, reflecting a rolling three-year investment of the period 2015-2017, reflecting a rolling three-year investment of the period 2015-2017, reflecting a rolling three-year investment of the period 2015-2017, reflecting a rolling three-year investment of the period 2015-2017, reflecting a rolling three-year investment of the period 2015-2017, reflecting a rolling three-year investment of the period 2015-2017, reflecting a rolling three-year investment of the period 2015-2017, reflecting a rolling three-year investment of the period 2015-2017, reflecting a rolling three-year investment of the period 2015-2017, reflecting a rolling three-year investment of the period 2015-2017, reflecting a rolling three-year investment of the period 2015-2017, reflecting a rolling three-year investment of the period 2015-2017, reflecting a rolling three-year investment of the period 2015-2017, reflecting a rolling three-year investment of the period 2015-2017, reflecting a rolling three-year investment of the period 2015-2017, reflecting a rolling three-year investment of the period 2015-2017, reflecting a rolling three-year investment of the period 2015-2017, reflecting a rolling three-year investment of the period 2015-2017, reflecting a rolling three-year investment of the period 2015-2017, reflecting a rolling three-year investment of the period 2015-2017, reflecting a rolling three-year investment of the period 2015-2017, reflecting a rolling three-year investment of the period 2015-2017, reflecting a rolling three-year investment of the period 2015-2017, reflecting a rolling three-year investment of the period 2015-2017, reflecting a rolling three-year investment of the period 2015-2017, reflecting a rolling three-year investment of the period portfolio of capital projects aligned to the Medium Term Policy Framework (MTF 2011-2014 and which will be the key mechanism for coordinating the implementalion the medium term socio-economic policy objectives.

# Government expenditure pattern

Government expenditure comprises expenditure on economic, social and general services. The pattern in government expenditure on economic, social and general serial a change in role of the government in the a change in role of the government in the growth process, financing pattern of deficits (debt and interest payments) and the deficits (debt and interest payments) and the need for fiscal consolidation. As not above, the revenue mobilization was constrained for fiscal consolidation. above, the revenue mobilization was constrained by the need for rationalization of structure and aligning the tax rates with interest of the need for rationalization of structure and aligning the tax rates with interest of the need for rationalization of structure and aligning the tax rates with international standards. Despite the initiation tax reforms in the early Nineties, in the Indian tax reforms in the early Nineties, in the Indian context, the typical 'Laffer curve effection of fructify and expected increase in tax based on the typical 'Laffer curve effection of the typical 'Laffer curve effetion of ratio of the Centre declined from an average of 9.9 per cent during the Eighties to

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per cent in the first half of the Nineties. In this scenario, the only way out from the macroeconomic crisis was to undertake an expenditure compression strategy. Accordingly, the overall size of the government sector (centre and states) expenditure after reaching a peak of 32.3 per cent of GDP in 1986-87 showed a steady decline till first half of the Nineties. However, on account of predominance of committed expenses, curtailment could not take place in the revenue expenditure.

As noted above, there has been a slowing down of public sector capital formation since the Eighties which is also reflected in the switch in pattern of government expenditure more towards revenue expenditure. The sharp increases in revenue expenditure reflected continued growth in non-plan expenditure on account of interest payments, subsidies, administrative and defence expenses.

The Plan Expenditure of the Government of India was ₹ 82669 crores during the year 2000-01. It increased to ₹ 465277 crores during the year 2015-16 (BE) showing an increase of ₹ 382608 crores during the period from 2000-01 to 2015-16. In percentage terms, the overall growth was 462.82 per cent during the period. The annual rate of growth in percentage terms was 30.85 per cent during the period from 2000-01 to 2015-16.

The Non-Plan Expenditure of the Government of India was ₹ 242923 crores during the year 2000-01. It increased to ₹ 1312200 crores during the year 2015-16 (BE) showing an increase of ₹ 1069277 crores during the period from 2000-01 to 2015-16. In percentage terms, the overall growth was 440.17 per cent during the period. The annual rate of growth in percentage terms was 29.34 per cent during the period from 2000-01 to 2015-16.

The total expenditure of the Government of India was ₹ 325592 crores during the year 2000-01. It increased to ₹ 1777477 crores during the year 2015-16 (BE) showing an increase of ₹ 1451885 crores during the period from 2000-01 to 2015-16. In percentage terms, the overall growth was 445.92 per cent during the period. The annual rate of growth in percentage terms was 29.73 per cent during the period from 2000-01 to 2015-16.

#### Interest payments

The widening of fiscal deficit and consequent rise in debt stocks during the last two decades have resulted in mounting expenditure on interest payments. The debt-to-GDP ratio rose from 46.4 per cent of GDP at the beginning of the Eighties to around 62 per cent by the beginning of the Nineties. The fiscal consolidation process in the first half of the Nineties facilitated some control in the debt burden of government. However, the fiscal stress in the latter half of the Nineties again built up the debt burden.

As a result of the mounting debt burden of the government, interest payments registered substantial increases during the Eighties. The interest burden kept on increasing even in the second half of Nineties despite a softer interest rate regime reflecting impact of sizeable outstanding liabilities contracted at higher interest rates during the early part of the decade and also a return to rising deficits. The persistent rise in interest payments since the mid-Eighties has remained a cause of serious concern.

According to the Economic Survey for 2016-17, India will have a favourable debt dynamics for the next decade as its nominal GDP growth is expected to be in the range of 11-14 and interest rate of 7-7.5 per cent with a differential of around 4-6.5 per cent. India needs to significantly improve its tax to GDP ratio to be able to serve its running

cost without borrowing and, thus, maintain a primary surplus. India also has to maintain a high growth rate while interest rate has to ease down sharply for significantly bringing down debt to GDP ratio.

#### NOTES

#### Subsidies

Expenditure on subsidies is a crucial element of government expenditure particularly the light of targeting poverty alleviation and the growing need to rationalize expenses for fiscal consolidation. The total burden of subsidies on government finances should take into account, in addition to the explicit subsidies, several implicit subsidies in the form lower user charges for economic and social services provided by the government. The major element of explicit subsidies is food subsides which is determined by the minimum support price of food grains, operational efficiency of public distribution.

Table 2.1 Public Sector Capital Formation and Subsidies to Agriculture (Centre and States)

Children	Public GCF Agriculture and Allied		Budgetary Subsidies (CSO)		Food Subsidy		Total Fertiliser Subsidy		Subsidy on Indigenous Urea		All other Agriculture	
Tenth Plan						-					Subsidies	
2002-03	9,563	2.0	43,597	9.0	24,176	5.0	11,015	2.3			Carrier or a	-
2003-04	12,218	22	43,765	8.0	25,181	4.6	11,847	30	7,790	1.6	16,196	3.3
2004-05	16,187	2.9	47,655	8.4	25,798	4.6		22	8.521	1.6	15.258	28
2005-06	20,739	3.3	51,065	8.0	23,077	3.6	15,879	2.8	10,243	1.8	16,221	29
2006-07	25,606	3.5	59,510	8.2	24,014		18,460	2.9	10.653	1.7	20,181	3.3
Heventh Plan	is in		W. D. IV		24,014	33	26,222	3.6	12,650	1.7	21.924	3.0
2007-08	27,638	3.3	85,698	10.7	31,328		-40000				000000	
2008-09	26,692	2.8	1.36,823	16.6	43,751	3.7	32,490	3.9	12,950	1.5	34,830	4.2
2009-10	33,237	3.1	1.39,248	12.9	58,443	4.6	76,603	8.1	17,969	1.9	51.438	5.5
2010-11	34,548	27	1,50,170	11.8	63,844	5.4	61,264	3.7	17.580	1.6	37,121	3.4
Vote: Public	portor soni-					5.0	62,301	4.9	15,081	1.2	39,106	3.1

Note: Public sector agricultural GCF and GDP are from CSO. National Accounts Division: budgetary subsidies, are also from Note businessextor agreements there are now easy are non-easy examinal accounts processed, orangement subsidies, are also from businessed on the economic and purpose classification of Government expenditure. Food and Ferraliser subsidies are from businessed of the Central Government. All other agriculture subsidies in the table are defined as budgetary subsidies (CSO) Positions on indigenous urea minus food subsidy. This is because CSO classifies food subsidy as subsidy to agriculture but classifies.

# Wages, salaries and pensions

The rising bill in respect of wages, salaries and pensions is considered to be an important element in the fiscal health of the government, particularly in the recent years. components partly represent the committed expenditure obligations of the government An intertemporal analysis of the behaviour of the expenditure on these components shows periodic spurts co-terminus with the implementation of wage revisions. For instance of Fifth Pay Commission of the implementation of wage revisions. the impact of Fifth Pay Commission Award by the central government could be seed

After the Sixth Pay Commission was implemented, the fiscal deficit that ye doubled to 6 per cent in 2008-09, partly due to the resulting increases.

The central government also undertakes revenue and capital expenditures for defer purposes which act as a public good at the national level.

- The Indian defence equipment market can be divided into four large areas:

  - Naval Systems

- Electronics Systems
- Aerospace

Key Objectives under the Twelfth Plan

- Progressive increase share of domestic procurement from 30 to 75 per cent in next 10 years.
- Ensure that 8–10 largest weapons programmes in the country have a targeted large percentage of locally manufactured content.
- Build local IP in critical defence areas.
- Promote and track civilian applications of technologies and material developed during defence research.
- Support local defence manufacturers in building export capabilities.
- Enable creation of one million new direct and indirect jobs in the defence manufacturing space.
- Monitor implementation of Government's offset policy in letter and spirit for large contracts.

## 2.6 EFFECTS OF PUBLIC EXPENDITURE ON PRODUCTION AND DISTRIBUTION OF INCOME

Ideas regarding the need and the effects of public expenditure have varied over time. The earlier approach was closely linked with the philosophy of laissez-faire according to which the best government was the one which governed the least. It was argued that everyone was the best judge of his own interests and that the government could not be expected to take any decision which was basically superior to the private ones. The only sphere where the government could legitimately operate was the preservation of the society and undertaking those activities which were needed by the economy but were commercially unprofitable. It was this logic which delimited the State's legitimate sphere of activities to defence, law and order, justice, administration and social overheads.

However, the fact that the market mechanism failed in many respects to bring about the desired results in the economy, forced an increasing intervention on the part of the State. This not only led to a rapid growth in the government sector and public expenditure but also fed various analytical hypotheses concerning public expenditure. However, we find that on account of the basic differences in the approaches adopted by various writers, we have no general agreement as to the way in which public expenditure can be used and the way it would affect the working of an economy. Thus, we find that some authors have characterized public expenditure as a potent tool for bringing about income and employment stability in the economy. Others are sceptical about the very possibility of using public expenditure usefully. To them public expenditure is a sheer waste and, therefore, a burden upon the economy. Still others would look at public expenditure as a major weapon for bringing about an egalitarian society through various welfare measures and so on.

Let us, however, proceed with the recognition of the fact that the government sector is a part of the economy and that it should be treated as such. It is a different thing, of course, just as different sectors of the economy are interdependent and influence

#### NOTES

## Check Your Progress

- List the objectives of public expenditure.
- 8. What is the importance of expenditure on subsidies in the government expenditure?

each other, similarly, the government sector also is interlinked with the rest of the economy. But there is one major difference. It is that the private sector of the economy is guided by the market mechanism while the government sector can be used by the authorities to bring certain changes in the economy. Within limits, the government sector can flout the laws of the market. It is also an important means of directing the working of the rest of the economy. It is this intricate relationship between the government sector and the rest of the economy which spells out different possible effects of public expenditure.

# 2.6.1 Economic Stability and Economic Development

It is a well-known fact that the market forces by themselves leave much to be desired it the field of economic results. The more advanced and free the market mechanism, the more prone the economy is to fluctuations in income, employment, and prices. It is for this reason that with the development of capitalism, free enterprise economies came of experience ever stronger trade cycles. Accordingly, the need to use some effective and cyclical measures was recognized more so since the havoc which the Great Depression of the 1930s caused. Keynesian diagnosis of the basic cause of the ills of a developed market economy was the deficiency of effective demand which was caused on account of a low marginal propensity to consume coupled with a low marginal efficiency of investment. He therefore advise a superficiency of the consumer coupled with a low marginal ef investment. He, therefore, advocated a continuous injection of additional purchasing power in the market through stimulation of investment and consumption activities and through direct public investment and consumption activities and the public investment and consumption activities are activities and the public investment and consumption activities are activities and the public investment and through direct public investment. This direct investment was a part of the public expenditure. Such a public and the public expenditure. expenditure. Such a public expenditure was meant to directly add to the effective demanding the market and generates birt. in the market and generate a high-value multiplier by distributing income to those sections of the population which had a high-value multiplier by distributing income to those sections. of the population which had a high marginal propensity to consume. The addition to demand by such sections would be a high marginal propensity to consume. demand by such sections would also stimulate investment activity and, thus, through all-round increased demand to all-round increased demand, the depression could be overcome. Keynesian prescription was basically directed towards are sensed to the depression could be overcome. was basically directed towards curing a state of depression - but the logic of the argument can also be extended to that of a state of depression - but the logic of the argument. can also be extended to that of curing a state of depression - but the logic of the arguments of the curing an inflationary situation. To put it differently keynesian policy prescription can be a state of depression of the logic of the arguments of compensatory finance. Keynesian policy prescription can be developed into a scheme of compensatory finance correcting the deficiency or as a be developed into a scheme of compensatory finance. correcting the deficiency or excess of demand by the private sector of the economy.

And this During a depression the State was expected to increase total spending in the economic extent the could be done, if need by And this could be done, if need be, through deficit financing. Public borrowings, to the extent they came out of savings and through deficit financing. extent they came out of savings of the people, would help in the stimulation of overal demand when they were spent. This demand when they were spent. This would be more so when the savings of the people would be more so when the savings of the peo were not finding an investment outlet, due to an all-round deficiency of demand.

Similarly, if definite

Similarly, if deficit financing was being met through creation of additional money there would be a net increase in total expenditure would again be felt. In either case During a boom, on the other hand, the need is to curb extra demand. This may be done or borrowings. Here taxation would drain away some of the purchasing power front investment (since market savings are not likely to go uninvested on account of good inflationary pressures.). Thus, a curtailing of public expenditure would restrain and investment was a since market savings are not likely to go uninvested on account of good inflationary pressures.

It must be remembered that the use of public expenditure as an anti-cyclic through the exists.

in one industry spreads to the rest of the economy. It is necessary

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that such spreading out of effects should be even enough and without undue time lags. And if a depression is to be cured through stepping up of demand, then there must be adequate unutilized excess capacity in the economy. If these assumptions are satisfied, then the authorities have to concern themselves only with the aggregate demand and not with the particular directions in which it is flowing, since through the interaction between demand and supply flows an automatic adjustment takes place. In a market, where there are technical and other rigidities, the effect created in one sector may not evenly spread to the others. It must be noted that such rigidities are not absent even in developed countries. As a result, under such circumstances, public expenditure no longer remains a simple and easy tool.

The authorities have to regulate not only the total magnitude of demand in the economy, they also have to ensure that the subdivisions of the demand flows match the supply flows. Public expenditure as an anti-cyclical tool will have to be devised in a detailed manner. If this care is not taken, and if the authorities use public expenditure just to stimulate demand in general, then such a stimulating effect will be felt only for certain items while many other industries and areas would remain unaffected, or would be affected only partially. Actually, it is quite possible that while some sectors of the economy are suffering from lack of demand some others might be groaning under inflationary pressures on account of too much demand. Similarly, it is also possible that when the government reduces its expenditure to curtail over-all demand, the effect is more or less concentrated in the industries for which the government reduces the expenditure directly.

As is well-known, an underdeveloped country suffers from far greater rigidities than do the developed countries. Shortages of particular materials, are common. There are gaps in the form of absence of certain industries or adequate productive capacity therein. Various kinds of institutional and legal restrictions prevent a proper and quick market response on the part of different sectors of the economy; and it may be the case even with those sectors to which public expenditure is applied directly. As a result, the problem of bringing about economic stability is far more complex in this case.

Another factor which contributes to the complexity of the problem is the fact that an underdeveloped economy is having, generally speaking, inelastic demand for essential maintenance imports while demand for its exports is quite weak. The result is that if the world prices for its exports fall, it is forced to distress sales; while if its import prices increase, its cost price level is pushed up. Ordinarily an underdeveloped country does not have much defence against this type of instability. Public expenditure cannot remedy the situation to a sufficient degree. Normally, through export and import duties, it should be possible to bring about desired changes in exports and imports; but under unfavourable conditions, this is generally not effective enough. And for some countries, recurring balance of payments problems add to their difficulties.

In summary, we may say that in underdeveloped countries, public expenditure as a general weapon against economic instability has only a limited use; a very detailed programme has to be worked out to meet the specific problems on hand and even then public expenditure alone may not be adequate to overcome the difficulties. A careful and judicious combination of the import and export subsidies, duties and other steps has to be used for achieving effective results.

## 2.6.2 Effect of Public Expenditure on Production

Public expenditure can help the economy in numerous ways in attaining higher levels of production and growth. The ways in which such effects might be brought about are

obviously inter-related. The analysis of these effects can be taken up separately in the context of developed and underdeveloped economies.

Let us first take up the case of a developed market economy. Such an economy has enough of flexibility but may be suffering from a deficiency of effective demand. Public expenditure can add to the effective demand directly and thus generate conditions favourable for the market forces to push up production. Actually such public investment need not be productive in the sense of adding to the supply side of the market also. This public investment can just be a means of disbursing purchasing power to those who would spend the same and add to the effective demand.

But the technique of increasing production through increasing demand becomes ineffective once the level of full employment is reached. Money income goes up but real income does not increase correspondingly because real income depends upon the use of real resources. If, therefore, demand is pushed beyond full employment, it will only add to the inflationary pressures. It may be noted further that the public expenditure may  $n^{o\dagger}$ be able to push up production proportionately because of various rigidities from which even a developed economy is likely to suffer. For example, some industries may not have unutilized excess capacity when demand goes up. In some industries monopolistic practices may be in vogue and there can be strong militant trade unions. Under different technical and other types of rigidities the economy may not be able to respond fully to increased demand. The result is likely to be a partial increase in production when demand increases through the use of public expenditure and the results can be quite inflationary beyond a limit. Once we recognize the rigidities from which a developed economy may be suffering and the corresponding lack of complete inter-flow of demand between it various sectors, the co-existence of inflation and unemployment cannot be ruled out. If such a case the authorities cannot be indifferent as regards the manner in which public expenditure generates additional demand in the economy. Specific details of public expenditure would have to be decided so as to achieve selective additions to demand along those lines which suffer from shortage of effective demand.

The case is a different one with underdeveloped economies. Such economies are characterised by a low level of saving and investment activity. This deficiency, against saving and investment, or both. Thus in underdeveloped countries, there is a shortage of social overheads, skilled labour, capital equipment and machinery. A number of important and basic industries either do not exist or need to the expanded. Public expenditure can be directly used to create and maintain social overheads. It can also be used to create human skills through education and training. A country like India suffers from the problem setting up industries in these areas. Public expenditure can be used to provide necessary be used to give subsidies for increasing their profitability. Thus the authorities can strengthen the process of capital accumulation. To the extent this capital formation in financed through foreign aid, the process of economic growth is accelerated.

In this process of accelerating capital accumulation, the authorities have to take to possible harmful incidental effects.

Several investment projects have long gestation periods, that is, it takes a long time before the commencement of output. Similarly, some other forms of public expenditure (such as on education) exert only long-term beneficial effects on production

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But there is an addition to money income right from the beginning. In the short run, therefore, such public expenditure generates inflationary pressures. Hence, care must be taken to ensure that inflationary pressures remain within manageable limits.

A sizeable portion of public expenditure is wasted due to faulty planning and execution. This must be avoided.

On account of inherent scarcity of productive resources, care must be taken to determine appropriate investment priorities and stick to them. A proper cost-benefit study should be taken up for each project as also its relationship with other industries in terms of input-output coefficients. Emphasis must be laid on industries to which, for various economic and social reasons, a high priority is accorded and which satisfy the cost-benefit criteria.

Creation of additional productive assets is meaningful only if adequate public expenditure is devoted to their maintenance and operation.

Public expenditure is known for its sub-optimal output. In the very nature of things, it is not possible to fully remedy this situation, but efforts should be made to minimize the wastage of public expenditure.

The authorities should carefully allocate public expenditure over various projects and schemes meant to stimulate private investment. An underdeveloped economy has some untapped resources, but the extent to which they can be utilized in the near future and the extent to which they can be shifted from one use to the other faces several constraints. Accordingly, the size and composition of public expenditure are closely linked with the way it is financed. Resorting to printing press or borrowing from the central bank of the country will add to aggregate demand in the country. Such a course, therefore, has to be kept under observation for its possible inflationary effects. In contrast, financing of public expenditure through market borrowings or taxation may drain the private sector of the corresponding investible resources, that is, it may 'crowd out' the private investment. Therefore, the net effect of public expenditure depends upon the uses to which these Therefore, the net effect of public expenditure depends upon the uses to which these Therefore, the private sector before their acquisition by the authorities, and funds were being put by the private sector before their acquisition. A detailed analysis the uses to which they are put by the authorities after their acquisition. A detailed analysis of the flow of funds and the changes therein on account of all these public policies must of the flow of funds and the changes therein on account of all these public policies must of the flow of funds and the changes therein on account of all these public policies must of the flow of nanongoing basis in order to achieve the best possible results.

An increase in the rate of investment undoubtedly helps in accelerating the rate of economic growth. However, all additional investment need not be in the form of direct of economic growth. However, all additional investment need not be in the form of direct public investment only. Public expenditure may also be used for helping private investment public investment only. Public expenditure may also be used for helping private investment and production through a pursuit of policies which reduce the cost of production, or push and production through a pursuit of policies which reduce the cost of production and maintenance up demand or remove particular shortages and bottle-necks. Creation and miprovement of social overheads lead to an all-round reduction in cost of production and improvement of social overheads in efficiency. This, therefore, increases profitability and production. Also social overheads in efficiency. This, therefore, increases profitability and production. Also social overheads in efficiency. This, therefore, increases profitability and production and improvement bring different regions and sectors of an economy in closer contact with each other and bring different regions and sectors of an economy in closer contact with each other and bring different regions and sectors of an economy in closer contact with each other and bring different regions and sectors of an economy in closer contact with each other and bring different regions and sectors of an economy in closer contact with each other and bring different regions and sectors of an economy in closer contact with each other and bring different regions and sectors of an economy in closer contact with each other and bring different regions and sectors of an economy in closer contact with each other and bring different regions and sectors of an economy in closer contact with each other and bring different regions and sectors of an economy in closer contact with each other and bring different regions and sectors of an economy in closer contact wi

Public expenditure can be used to create demand for various products, and thus stimulate private production. A policy of purchase preference in favour of domestically produced goods and services helps domestic enterprise and employment. However, it is noteworthy that international commitments such as towards WTO can come in the way of a policy of purchase preferences.

Public sector investment can be specifically directed towards creation of specified supplies and facilities, which form important and necessary inputs for other industries. Imports of essential raw materials can be arranged and special labour skills can be developed. To put it differently, public expenditure can be utilised as a means to remove numerous shortages and bottlenecks in the way of production. Public expenditure can be effectively used in reducing regional disparities also. Strategies industries can be subsidised and otherwise helped through loans, etc., if they are established in specified regions. In the same way, a larger proportion of public expenditure on social overheads can be devoted to these areas. Education and training facilities can also be provided as a further aid in reducing regional disparities.

Research and development are important and helpful activities which must be accorded a high priority. New, effective and cheap methods of production can be found whereby local resources are used and a saving in imports and foreign exchange is effected. New products can be invented which will help the economy in its various productive activities. In these diverse ways, the economy can be helped in effecting a re-allocation of its resources and in the process of economic growth.

To summarise, public expenditure affects the level of production in three ways.

These are as follows:

## (a) Capacity to work and save

Dalton states that as a consequence of public expenditure, the capacity to work and save tends to increase. This is because public expenditure allows different types of social and economic facilities that help stimulate the capacity to work of the people increased capacity suggests increased efficiency and greater employment. As a result the level of income and saving tends to rise enabling greater investment and adding to the pace of growth.

## (b) Desire to work and save

According to Dalton, public expenditure promotes the will to work and save. As \$\gamma\$ consequence of this, the income and standard of living of people increases.

# (c) Productive utilization of resources

Public expenditure re-establishes a balance in the economy by focusing on those are go of production which generate maximum linkages effect. It attracts idle resources their productive utilization. Accordingly, production level tends to raise the resources from unproductive activities to productive ones. As a consequence there is an increase.

# 2.6.3 Economic Distribution

An important aspect of the market mechanism is the inequalities of income and wealth that arise on account of it and which through the institutions of private property and inheritance get widened with the passage of time. Furthermore, such income and wealth disparities not only spell a social and economic injustice, they also distort production and employment patterns.

Lesser inequalities of income and wealth, it may be claimed, contribute towards economic stability. It is generally recognized that marginal propensity to consume fall as income rises. As a result, during the expansionary phase of a trade cycle, consumption demand tends to lag behind and causes a check on further expansion of demand in

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economy. Without such a check the upward movement of the trade cycle might develop into a real inflation. Similarly, during a depression, consumption refuses to dip below a certain level and as a result the economy is provided a firm base below which on account of a minimum demand it would not go. Furthermore, such a stability in the economy itself is helpful to economic growth. Private investment is affected, amongst other things, by safety and expected rates of return. With economic stability and expectation thereof, the risk of loss is reduced and this has, therefore, a healthy effect on the investment climate.

Welfare considerations also favour an equitable distribution of income and wealth. The purpose of an economic policy should be to contribute towards achieving the maximum social benefits. Though we cannot prove objectively that marginal utility of income falls as income increases, such a statement may be accepted on common-sense basis. If that is agreed, it follows that any movement towards equitable distribution of income and wealth would increase the aggregate satisfaction in the community. Lerner has shown that even if we do not know the exact way in which marginal utility of income falls with a rise in income and even if we cannot have interpersonal comparisons of utility, still a shift towards equality would probably add to the aggregate satisfaction of the community.

Such a shift towards equality, of course, may be achieved through various forms of public expenditure especially those which are meant to help the poorer sections of the society. A number of welfare measures like free education, health, water and other facilities can be given a top priority. Numerous social security schemes can be adopted whereby people are entitled to old-age pensions, unemployment relief, sickness allowance and so on. Articles of common consumption like food can be subsidised, and the production of those which are in short supply can be taken up in the public sector. Left to market mechanism, the supply of 'merit goods' is likely to be insufficient. Public expenditure, through direct purchases, public production or subsidies can ensure that their supply is augmented to the desired extent. Similarly, public expenditure, through appropriate subsidies and other 'purchase and stores' policy can encourage labour-intensive techniques of production which reduce unemployment and improve income distribution.

However, while proceeding with the programme of bringing about income and wealth equalities, certain aspects of possible interaction between distributive justice and other dimensions of the economy must be kept in mind. To begin with, poorer people may not be able to enjoy fully the additional income because of ignorance. But this argument is applicable only if suddenly large amounts of income start flowing to the poorer sections of the community. In an underdeveloped country (to whose poor people this argument could be directed); this argument does not apply because there is not enough to significantly improve the lot of everyone. Through income redistribution the poor masses can only feel a marginal relief. Even if there was a lot of income to poor masses can only feel a marginal relief. Even if there was a lot of income to redistribute, the desirability of reducing inequalities would not be disproved. It would redistribute, the desirability of reducing inequalities would not be disproved. It would only point towards the need for going slow in this direction, so that the poorer sections also get accustomed to higher standards of living.

The second consideration is that of the effect of equalities on production through the will and capacity to work, save and invest. This is a controversial field, and clear-cut and widely acceptable generalizations are difficult to make. In a poor country, where the need to reduce inequalities is the greatest, saving potential is only with the higher income groups. With a big shift towards equalities, such a saving potential is much reduced especially because the poorer sections of the community are bound to consume away a major portion of their newly acquired incomes. The objective of economic equality, therefore comes into-conflict with that of economic growth. In other words, both will

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and capacity to save on the part of the members of the society are likely to suffer when a shift towards income and wealth equalities is made. An underdeveloped country, therefore, is faced with a difficult choice.

Thirdly, the distributive effects of public expenditure must be viewed in the context of its method of financing. For example, if the tax system of the country is regressive, it would militate against the distributive effects of public expenditure. Similarly, if public expenditure is financed through deficit financing, or through such borrowings as are inflationary in character, inequalities would widen. However, deficit financing to a limited extent need not generate inflationary pressures. Similarly, public borrowings out of genuing savings of the economy are expected to be only mildly inflationary. While the long-term solution of its economic difficulties cannot be had without economic growth, the problem of income distribution also cannot be postponed indefinitely. A medium, therefore, has to be worked out wherein both these objectives are pursued concurrently in a balanced manner. And to the extent the hitherto un-exploited resources can be tapped, or foreign aid is received, the task of pursuing both the goals (of equitable distribution and growth) become less difficult.

#### 2.7 SUMMARY

- Public expenditure refers to the expenses which a government incurs for (i) if own maintenance, (ii) the society and the economy, and (iii) helping other countries
- Historically, public expenditure has recorded a continuous increase over time almost every country. However, traditional thinking and philosophy did not favour this trend because it rated market mechanism as a better guide for the working the economy and allocation of its resources.
- With regard to similarities between the public and private expenditures, we can be compared to similarities. hypothesise that both private units and public authorities try to maximize return per unit of expenditure (the returns being the objectives to be achieved).
- It is conventional to classify public expenditure into various economic categories Accounting classification has been there for centuries because it enables State executive to maintain an effective control and check over public expenditure and possible leakages and wastage, diversions and misappropriations.
- Transfer expenditure is a payment without corresponding receipt of goods and a second se services by the State. Examples are interest payments, old age pensions
- Plan expenditure in the Government, generally, signifies expenditure taken under development schemes during a particular Five Year Plan.
- Due to the complex nature of government, the policy regarding what should go classified as Plan expenditure and the policy regarding what should go classified as Plan expenditure and the policy regarding what should go classified as Plan expenditure and the policy regarding what should go classified as Plan expenditure and the policy regarding what should go classified as Plan expenditure and the policy regarding what should go classified as Plan expenditure and the policy regarding what should go classified as Plan expenditure and the policy regarding what should go classified as Plan expenditure and the policy regarding what should go classified as Plan expenditure and the policy regarding what should go classified as Plan expenditure and the policy regarding what should go classified as Plan expenditure and the policy regarding what should go classified as Plan expenditure and the policy regarding the policy reg classified as Plan expenditure and what should get classified as non-plan expenditure
- Actually economy of expenditure is a relative term and not an absolute one. expenditure is to be viewed against the benefits that will accrue from it.
- Adolph Wagner (1835–1917) was a German economist who based his Long to the Anti-state of the Anti Increasing State Activities on historical facts, primarily of Germany. According to Wagner, there are inherent tendencial facts, primarily of Germany. to Wagner, there are inherent tendencies for the activities of different layers of

## Check Your Progress

- 9. What steps should be taken by underdeveloped countries for economic stability and development?
- What are aspects of market mechanism?

government (such as central and state governments) to increase both intensively and extensively.

- Wagner's Law was based upon historical facts. It did not reveal the inner compulsions under which a government has to increase its activities and public expenditure as time passes.
- Buchanan and Tullock, in the context of US experience, have viewed Wagner's theory in terms of increasing discrepancy between growth of government expenditure and government output and termed the phenomenon as 'Wagner Squared' hypothesis.
- The second thesis dealing with the growth of public expenditure was put forth by Wiseman and Peacock in their study of public expenditure in UK for the period 1890-1955. The main thesis of the authors is that public expenditure does not increase in a smooth and continuous manner, but in jerks or step like fashion.
- Wiseman Peacock hypothesis is still a description of a particular tendency and does not isolate all the relevant causes at work.
- The objective of contemporary public expenditure is to focus on improving institutional arrangements and management practices to create incentives for better resource allocation, resource use and financial management.
- Expenditure on subsidies is a crucial element of government expenditure particularly in the light of targeting poverty alleviation and the growing need to rationalize expenses for fiscal consolidation.
- Ideas regarding the need and the effects of public expenditure have varied over time. The earlier approach was closely linked with the philosophy of laissez-faire according to which the best government was the one which governed the least.
- It is a well-known fact that the market forces by themselves leave much to be
  desired in the field of economic results. The more advanced and free the market
  mechanism, the more prone the economy is to fluctuations in income, employment
  and prices.
- An important aspect of the market mechanism is the inequalities of income and wealth that arise on account of it and which through the institutions of private property and inheritance get widened with the passage of time.
- Welfare considerations also favour an equitable distribution of income and wealth.
   The purpose of an economic policy should be to contribute towards achieving the maximum social benefits.
- The distributive effects of public expenditure must be viewed in the context of its method of financing. For example, if the tax system of the country is regressive, it would militate against the distributive effects of public expenditure.

## 2.8 KEY TERMS

- Fiscal deficit: It is an economic phenomenon, where the government's total expenditure surpasses the revenue generated.
- Monetisation: The process of converting or establishing something into legal tender is known as monetisation.
- · Subsidies: It refers to assistance to a business or economic sector for producers.

Public Expenditure

 Egalitarian: It is a belief that all people are equal and should have the same rights and opportunities.

#### NOTES

## 2.9 ANSWERS TO 'CHECK YOUR PROGRESS'

- Public expenditure refers to the expenses which a government incurs for (i) it own maintenance, (ii) the society and the economy, and (iii) helping other countries
- The kinds of public expenditure are the following:
  - Productive and unproductive expenditure
  - Transfer and non-transfer expenditure
  - Plan and non-plan expenditure
- 3. The canon of elasticity denotes that there should not be any rigidity in spending public funds. It should be possible to bring about necessary changes in it in respons to changing circumstances and situation.
- The canon of optimizing production and distribution believes that public expenditudes. must work out a proper control on both production and distribution of income and wealth in the society.
- According to Wagner, there are inherent tendencies for the activities of difference. layers of a government (such as central and state governments) to increase both intensively and extensively. There is a functional relationship between the grow of an economy and government activities with the result that the government sector grows faster than the economy.
- 6. The main thesis of Wiseman and Peacock is that public expenditure does  $^{\rm pp}$ increase in a smooth and continuous manner, but in jerks or step like fashion.
- 7. The objectives of public expenditure are as follows:
  - Fiscal discipline
  - Resource allocation according to strategic priority (allocative efficiency)
  - Effective and efficient usage of resources according to strategic prior
- 8. Expenditure on subsidies is a crucial element of government expenditure particular in the light of targeting poverty alleviation and the growing need to rational expenses for fiscal consolidation. The total burden of subsidies on government finances should take into account the total burden of subsidies on government. finances should take into account, in addition to the explicit subsidies, sevel implicit subsidies in the form of lower user charges for economic and social server
- 9. In underdeveloped countries, public expenditure as a general weapon again a seconomic instability has only a limit of the seconomic of the sec economic instability has only a limited use, a very detailed programme has to worked out to meet the specific problem. worked out to meet the specific problems on hand and even then public expendible alone may not be adequate to expendible to expendible alone may not be adequate to expendible and even then public expendible alone may not be adequate to expendible and even then public expendible alone may not be adequate to expendible and the content of the content o alone may not be adequate to overcome the difficulties. A careful and judicion combination of the import and export subsidies, duties and other steps has to
- 10. The aspects of market mechanism are inequalities of income and wealth.

## 2.10 QUESTIONS AND EXERCISES

### Short-Answer Questions

- 1. Prepare a short note on the similarities and dissimilarities between private and public expenditure?
- 2. What are the factors responsible for the growth of public expenditure in the country?
- Define coarse fallacy.
- 4. How can public expenditure be used as a weapon for economic stability and development of the country?

### Long-Answer Questions

- Discus the scope of public expenditure.
- 2. Discuss in detail the types of public expenditure.
- 3. Describe the cannons of expenditure.
- Critically analyse the Wiseman-Peacock hypothesis.

## 2.11 FURTHER READING

Tyagi, B.P. 1975. Public Finance. Meerut: Jai Prakash Nath and Co.

Sundaram and Sundaram. 1984. Public Finance. New Delhi: Sultan Chand & Sons.

Croxton, Frederick Emory, Dudley Johnstone Cowden and Sidney Klein. 1967. Applied General Statistics. New Jersey: Prentice-Hall.

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## UNIT 3 PUBLIC REVENUE

#### Structure

- 3.0 Introduction
- 3.1 Unit Objectives
- 3.2 Public Revenue: Meaning and Classification
- 3.3 Sources of Public Revenue
  - 3.3.1 Goods and Services Tax (GST), 2017
- 3.4 Canons of Taxation
- 3.5 Benefit Approach of Taxation
  - 3.5.1 Ability to Pay
- 3.6 Effect of Taxation on Production 3.6.1 Effect of Taxation on Distribution
- 3.7 Summary
- 3.8 Key Terms
- 3.9 Answers to 'Check Your Progress'
- 3.10 Questions and Exercises
- 3.11 Further Reading

## 3.0 INTRODUCTION

Public finance is a concept that includes public expenditure, public debt, public revenue and public income. Public revenue is the income generated by the government from various sources to meet the requirements of expenses of public. It usually refers to government revenue. Some important sources or concepts that are included in public revenue consist of taxes, fees, sale of public goods and services, fines, donations, and so forth. These sources are divided into two broad groups: tax and non-tax revenues. The chief source of public revenue is tax, which is a mandatory imposition of duty on public authority by government organizations to meet requirements of general public as a whole. Tax revenues include revenues received by the government by way of income tax, Central excise and customs. Non-tax revenue includes all revenues other than taxes, accruing to the government, such as administrative revenues, commercial revenues, and grants and gifts.

In this unit, you will study about the meaning and classification of public revenue, sources of public revenue, canons of taxation, benefit approach of taxation and effects of taxation on production and distribution.

## 3.1 UNIT OBJECTIVES

After going through this unit, you will be able to:

- Define public revenue
- Discuss the classification of public revenue
- Identify the sources of public revenue
- Explain the canons of taxation
- Interpret the benefit approach of taxation
- Analyse the effects of taxation on production and distribution

## PUBLIC REVENUE: MEANING AND 3.2 CLASSIFICATION

#### NOTES

Every government needs funds to finance its activities. Such funds are raised from various sources. It is difficult to give a complete list of all the sources of public receipts But the important ones include taxes, income from currency, market borrowings, sale public assets, income from public undertakings, fees, fines, gifts and donations, Professor Dalton makes a distinction between public receipts and public revenue While public receipts include receipts from all sources, public revenue is a narrow concept and excludes public borrowings, income from the sale of public assets, or receipt from the use of 'printing press'.

It is a normal practice with a government to divide its receipts 'into 'revenue and 'capital' categories. Broadly speaking, revenue receipts include 'routine' 'earned' ones. For this reason, they do not include borrowings and recovery of load from other parties, but they do include tax receipts, donations, grants, fees, and find Capital receipts, on the other hand, cover those items which are basically of  $n^{ab}$ repetitive and non-routine variety and change government's financial liabilities

## Classification of Public Revenue

The following are the main classifications of public revenue given by different economist

- Adam Smith's classification: Adam Smith classified public revenues into two categories, namely revenue from the public and revenue from state proper This classification is very narrow; it does not serve the purpose of modern finance
- Bastable's classification: Professor Bastable also classified public revenue if two categories, namely income received by the government from various function and income received by the government in the capacity of the 'state'.
- Seligman's classification: Seligman classified public revenue into the categories: (i) gratuitous revenue, (ii) compulsory revenue and (iii) contracti revenue. A major drawback of this classification is that it fails to describ unambiguously the differences between fees, prices and taxes.
- Lutz's classification: Lutz has classified public revenue into six categorial. commercial revenue, administrative revenue, taxation, public debts, grants bookkeeping revenue. Of these six categories, the last three are no longer included
- Dalton's classification: According to Dalton, there are two main sources public revenue: taxes and prices. He has identified twelve categories of public revenue cities and prices. finance: taxes, gifts and reparations, compulsory loans, fines in courts, public property. Goaling the state of the state enterprises, public property, fees in other payments, public monopolies (monopolies) profits), duties, special assessment, voluntary gifts and mint.

# Ideal classification of Findlay Shirras

All the aforementioned classifications have some type of lacuna in them. Shirth classification of revenue into tax and non-tax categories is accepted as most convince Tax revenue itself is divided into three sections:

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- (i) Taxes on income and expenditure: This section covers all those taxes which are levied on receipts of income and expenditures such as corporation tax, income tax, expenditure tax, interest tax, and similar other taxes, if any, in force.
- (ii) Taxes on property and capital transactions: This section covers taxes on specific forms of wealth and its transfers such as estate duty, wealth tax, gift tax, house fax, land revenue and stamps and registration fees and so forth.
- (iii) Taxes on commodities and services: This section includes taxes on production, sale, purchase, transport, storage, and consumption of goods and services.

Non-tax revenue of the government is divided into three sections:

- (i) Currency, coinage and mint: This category covers the receipts of Currency Note Press at Nasik, Security Paper Mill at Hoshangabad, Bank Note Press at Dewas and of the Mints. Profit from circulation of small coins is also included here.
- (ii) Interest receipts, dividends and profits: This section comprises, apart from interest receipts on loans by the government to other parties, dividends and profits from public sector undertakings run by or as government departments including other income generating departments. Examples are contributions from railways and posts and telecommunications, and surplus profits of the Reserve Bank of India transferred to the government.
- (iii) Other non-tax revenue: This section covers revenue from various government activities and services such as from administrative services, public service commission, police, jails, agriculture and allied services, industry and minerals, water and power development services, transport and communications, supplies and disposal, public works, education, housing, information and publicity, broadcasting, grants-in-aid and contributions. Note that income and profit from the creation of currency by the government, i.e., the excess of face value of currency over its cost of creation are also included in this group of revenue.

# 3.3 SOURCES OF PUBLIC REVENUE

As shown in Figure 3.1, there are two sources of public revenue, namely tax revenue and non-tax revenue. A tax is a compulsory levy imposed by a public authority on persons and organizations to meet public expenditures. It is the compulsory payment made to the government. Refusal to pay the tax is a punishable offence. Every tax involves some sacrifice on the part of tax payers. A tax is not a fine or penalty. Non-tax revenue sacrifice all revenues other than taxes, accruing to the government. These are internally includes all revenues other than taxes, accruing to the government, and grants and generated funds, such as administrative revenues, commercial revenues, and grants and gifts.

#### NOTES

### **Check Your Progress**

- What is the difference between revenue receipts and capital receipts?
- Mention the types of non-tax revenues of the government.

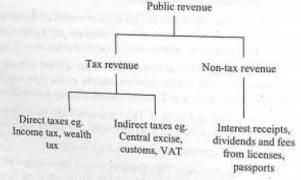


Fig. 3.1 Sources of Public Revenue

## A. Tax Revenues

Let us discuss the various sources of tax revenues.

## 1. Direct Taxes

A direct tax is a kind of charge, which is imposed directly on the taxpayer and paidirectly to the government by the persons (juristic or natural) on whom it is imposed direct tax is one that cannot be shifted by the taxpayer to someone else. Some important direct taxes imposed in India are as follows:

- Income Tax: Income Tax Act, 1961 (as amended) imposes tax on the income of the individuals or Hindu undivided families or firms or cooperative societies (other tan companies) and trusts (identified as bodies of individual associations of persons) income of a person for income-tax in India is based on his residential status (Residents) (ii) Residential status, viz., (i) Resident & Ordinarily Residents (Residents) (iii) Resident but not Ordinarily Residents and (iii) Non-Residents All residents are taxable for their income, including income outside India. Not India. Not ordinarily residents are taxable in relation to income accrued in India or income accrued in India.
- Corporation Tax: The companies and business organizations in India are taxed on the income from their worldwide transactions under the provision of Income it is incorporated in India or if it's control and management to be resident in India India. In case of non-resident corporations, tax is levied on the income which earned from their business transactions in India or any other Indian source.
- Property Tax: Property tax or 'house tax' is a local tax on buildings, along with appurtenant land, and imposed on owners. The tax power is vested in the state band and collection procedures. The tax base is the Annual Ratable Value (ARV) or area based rating. Owner-occupied and other properties not producing remarks.

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are assessed on cost and then converted into ARV by applying a percentage of cost, usually six per cent. Vacant land is generally exempted from the assessment. The properties lying under control of the central government are exempted from the taxation. Instead a 'service charge' is permissible under executive order.

• Inheritance and Estate Taxes: These taxes are levied on the demise of a person. A tax levied on those who inherit from the deceased person is termed as an inheritance tax and is usually assessed with reference to the overall tax liability of the inheritor. In contrast, an estate duty is levied on the entire wealth of the deceased person before and after the tax balance is inherited. Note that both taxes can be levied simultaneously.

In India, estate duties came into existence in 1957 and were abolished in the budget for 1985-86 because of their widespread ill-effects and extremely small collection. The duties were imposed and collected by the Centre, the net proceeds were divided between the States. Similarly, estate duty on agricultural lands can be imposed only by the States. Some States were doing so and the Centre was collecting it on their behalf and distributing the net proceeds between them. They were also abolished. However, the 1989-90 budget imposed a tax on transfer of wealth through inheritance and this tax was not shared with the States.

In recent years, some ingredients of erstwhile estate duty have been replaced by some forms of wealth tax.

 Gift Tax: Gift tax in India is regulated by the Gift Tax Act which was constituted on 1 April 1958. It came into effect in all parts of the country except in Jammu and Kashmir. As per the Gift Act 1958, all gifts in excess of ₹25,000, in the form of cash, draft, check or others, received from one who does not have blood relations with the recipient, were taxable. However, with effect from 1 October 1998, gift tax got demolished and all the gifts made on or after the date were free from tax. But in 2004, the Act was again revived partially. A new provision was introduced in the Income Tax Act, 1961 under Section 56 (2). According to it, the gifts received by any individual or Hindu Undivided Family (HUF) excess of ₹50,000 in a year would be taxable.

## 2. Indirect Tax

An indirect tax is a tax collected by an intermediary (such as a retail store) from the person who bears the ultimate economic burden of the tax (such as the customer). An indirect tax is one that can be shifted by the taxpayer to someone else. An indirect tax may increase the price of a good so that consumers are actually paying the tax by paying more for the products. The some important indirect taxes imposed in India are as follows:

- Customs Duty: The Customs Act was formulated in 1962 to prevent illegal imports and exports of goods. Besides, all imports are sought to be subject to a duty with a view to affording protection to indigenous industries as well as to keep the imports to the minimum in the interests of securing the exchange rate of Indian currency. Duties of customs are levied on goods imported or exported from India at the rate specified under the customs Tariff Act, 1975 as amended from time to time or any other law for the time being in force. Under the custom laws, the various types of duties are leviable.
  - o Basic Duty: This duty is levied on imported goods under the Customs Act, 1962.

- o Additional Duty (Countervailing Duty) (CVD): This is levied under Section 3 of the Custom Tariff Act and is equal to excise duty levied on like product manufactured or produced in India. If a like product is no manufactured or produced in India, the excise duty that would be leviable on that product had it been manufactured or produced in India is the duly payable. If the product is leviable at different rates, the highest rate amous those rates is the rate applicable. Such duty is leviable on the value of good plus basic custom duty payable.
- o Additional Duty to compensate duty on inputs used by India manufacturers: This is levied under Section 3(3) of the Customs Act. (4) Anti-dumping Duty: Sometimes, foreign sellers abroad may export into Indi goods at prices below the amounts charged by them in their domestic market in order to capture Indian markets to the detriment of Indian industry. The is known as dumping. In order to prevent dumping, the central government may levy additional duty equal to the margin of dumping on such article There are, however, certain restrictions on imposing dumping duties in case of countries which are signatories to the GATT or on countries given 'Mo Favoured Nation Status' under agreement.
  - o Protective Duty: If the Tariff Commission set up by law recommends in order to protect the interests of Indian industry, the central government may levy protective anti-dumping duties at the rate recommended on specific
  - o Duty on Bounty Fed Articles: In case a foreign country subsidises exporters for exporting goods to India, the Central Government may impos additional import duty equal to the amount of such subsidy or bounty. If amount of subsidy or bounty cannot be clearly determined immediately additional duty may be collected on a provisional basis and after fine determination, difference may be collected or refunded, as the case may
  - o Export Duty: Such duty is levied on export of goods. At present very feet articles such as skins and leather are subject to export duty. The main purpo of this duty is to restrict exports of certain goods.
- o Cess on Export: Under sub-section (1) of Section 3 of the Agricultural Processed Food Products Export Cess Act, 1985 (3 of 1986), 0.5 per cell ad valorem as the rate of duty of customs be levied and collected as cess of
- o National Calamity Contingent Duty: This duty was imposed under Section 124 of the Education 134 of the Finance Act, 2003 on imported petroleum crude oil. This tax w also leviable on motor cars, imported multi-utility vehicles, two wheeler
- o Education Cess: Education cess is leviable @ 2 per cent on the aggreg of duties of Customs (except safeguard duty under Section 8B and 80 CVD under Section 9 and anti-duty under Section 8B and 80 CVD under Section 9 and anti-duty under Section 8B and 80 CVD under Section 9 and anti-duty under Section 8B and 80 CVD under Section 9 and anti-duty under Section 8B and 80 CVD under Section 9 and anti-duty under Section 8B and 80 CVD under Section 9 and anti-duty under Section 8B and 80 CVD under Section 9 and anti-duty under Section 8B and 80 CVD under Section 9 and anti-duty under Section 9 and 9 Section 9 Section 9 and 9 Section 9 CVD under Section 9 and anti-dumping duty under Section 8B autoriff Act. 1985). Items attraction and duty under Section 9A of the Custoff Tariff Act, 1985). Items attracting Customs Duty at bound rates und international commitments are exempted from this Cess.
- o Secondary and Higher Education Cess: Leviable @1 per cent of
- o Separate Point Road Cess: Additional Duty of Customs on Motor Spins leviable and Motor Sp is leviable and Additional Duty of Customs on Motor Oil

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leviable by the Finance Act (No.2), 1998. and the Finance Act, 1999 respectively.

- o Surcharge on Motor Spirit: Special Additional Duty of Customs (Surcharge) on Motor Spirit is leviable by the Finance Act, 2002.
- · Central Excise Duty: The central government levies excise duty under the Central Excise Act, 1944 and the Central Excise Tariff Act, 1985. The Central excise duty is a tax which is charged on such excisable goods that are manufactured in India and are meant for domestic consumption. The term 'excisable goods' means the goods which are specified in the First Schedule and the Second Schedule to the Central Excise Tariff Act, 1985. It is mandatory to pay Central Excise duty payable on the goods manufactured, unless exempted eg; duty is not payable on the goods exported out of India. Further various other exemptions are also notified by the government from the payment of duty by the manufacturers. Various Central Excise are:
  - o Basis Excise Duty: Excise Duty, imposed under Section 3 of the 'Central Excises and Salt Act' of 1944 on all excisable goods other than salt produced or manufactured in India, at the rates set forth in the schedule to the Central Excise tariff Act, 1985, falls under the category of Basic Excise Duty in India.
  - o Special Excise Duty: According to Section 37 of the Finance Act, 1978, Special Excise Duty is levied on all excisable goods that come under taxation, in line with the Basic Excise Duty under the Central Excises and Salt Act of 1944. Therefore, each year the Finance Act spells out that whether the Special Excise Duty shall or shall not be charged, and eventually collected during the relevant financial year.
  - o Additional Duty of Excise: Section 3 of the 'Additional Duties of Excise Act' of 1957 permits the charge and collection of excise duty in respect of the goods as listed in the Schedule of this Act.

## o Road Cess:

- (a) Additional Duty of Excise on Motor Spirit: This is leviable by the Finance Act (No.2), 1998.
- (b) Additional Duty of Excise on High Speed Diesel Oil: This is leviable by the Finance Act, 1999.

## o Surcharge:

- (a) Special Additional Duty of Excise on Motor Spirit: This is leviable by the Finance Act, 2002.
- (b) Surcharge on Pan Masala and Tobacco Products: This Additional Duty of Excise has been imposed on cigarettes, pan masala and certain specified tobacco products, at specified rates in the Budget 2005-06. Bidis are not subjected to this levy.
- o National Calamity Contingent Duty (NCCD): NCCD was levied on pan masala and certain specified tobacco products vide the Finance Act, 2001. The Finance Act, 2003 extended this levy to polyester filament yarn, motor car, two wheeler and multi-utility vehicle and crude petroleum oil.
- o Education Cess: Education Cess is leviable @2 per cent on the aggregate of duties of Excise and Secondary and Higher Education Cess is Leviable @1 per cent on the aggregate of duties of Excise.
- o Cess: A cess has been imposed on certain products.

- Service Tax: The service providers in India except those in the state of Jammu and Kashmir are required to pay a Service Tax under the provisions of the Finance Act of 1994. The provisions related to Service Tax came into effect on 1st July 1994. Under Section 67 of this Act, the Service Tax is levied on the gross of aggregate amount charged by the service provider on the receiver. However, if terms of Rule 6 of Service Tax Rules, 1994, the tax is permitted to be paid on the value received. The interesting thing about Service Tax in India is that the government depends heavily on the voluntary compliance of the service provider for collecting Service Tax in India.
- Sales Tax: In India, sales tax can be imposed only by the States on the sale purchase, etc. of goods. Most States were doing so. It was being levied successive sales of an item on the full sale value. This system had its own ill effects particularly in the form of adding to the costs and prices. Therefore, accordance with what several other countries had done, in India, States were persuaded to switch over to another form of sales tax, termed VAT. It is also levied on successive transactions of an item but only on the 'value added' after the preceding transaction. If implemented properly, VAT has several advantage over sales tax such as avoidance of taxation of the already paid taxes.

In addition, the Centre levies Central Sales Tax on inter-state transactions and in net proceeds go to the States.

- Value Added Tax (VAT): The practice of VAT executed by State Government is applied on each stage of sale, with a particular apparatus of credit for the inp VAT paid. VAT in India classified under the tax slabs are 0 per cent for essenti commodities, 1 per cent on gold ingots and expensive stones, 4 per cent on industrial inputs, capital merchandise and commodities of mass consumption, and 12.5 pt cent on other items. Variable rates (State-dependent) are applicable for petroleur products, tobacco, liquor and so forth. VAT levy will be administered by the Value Added Tax Act and the rules made there-under and similar to a sales tax. It is tax on the estimated market value added to a product or material at each stage of its manufacture or distribution, ultimately passed on to the consumer. Under current single-point system of tax levy, the manufacturer or importer of good into a State is liable to sales tax. There is no sales tax on the further distribution channel. VAT, in simple terms, is a multi-point levy on each of the entities in supply chain. The value addition in the hands of each of the entities is subject the value addition in the hands of each of the entities is subject to tax. VAT can be computed by using any of the three methods:
  - o Subtraction method: The tax rate is applied to the difference between value of output and the cost of input.
  - o The Addition method: The value added is computed by adding all the payments that is payable to the Gold added in computed by adding all the payments that is payable to the Gold added in computed by adding all the payable to the Gold added in the payable to the Gold added in the payable to the Gold added in the payable to the gold adding a little to the gold addi payments that is payable to the factors of production (viz., wages, salarie
  - o Tax credit method: This entails set-off of the tax paid on inputs from
- Securities Transaction Tax (STT): STT is a tax, which is levied on transactions done on the stock small start is a tax, which is levied on the stock small start in the stock small start is a tax, which is levied on the stock small start in the transactions done on the stock exchanges. It is a pplicable on purchase or sale equity shares, derivatives, equity-oriented funds and equity-oriented mutual full Current STT on purchase or sale of an equity-oriented mutual becomes an investor after passenger of the country share is 0.075 per cent. A perfection of the country share is 0.075 per cent. A perfection of the country share is 0.075 per cent. becomes an investor after payment of STT at the time of selling securities (shares after 12 months does not selling securities (shares after 12 months does not selling securities) Sale of shares after 12 months does not attract this tax or tax on long-term gailing of shares after 12 months does not attract this tax or tax on long-term gailing of shares after 12 months does not attract this tax or tax on long-term gailing of shares after 12 months does not attract this tax or tax on long-term gailing of shares after 12 months does not attract this tax or tax on long-term gailing of shares after 12 months does not attract this tax or tax on long-term gailing of shares after 12 months does not attract this tax or tax on long-term gailing of shares after 12 months does not attract this tax or tax on long-term gailing of shares after 12 months does not attract this tax or tax on long-term gailing of shares after 12 months does not attract this tax or tax on long-term gailing of shares after 12 months does not attract this tax or tax on long-term gailing of shares after 12 months does not attract this tax or tax on long-term gailing of shares after 12 months does not attract this tax or tax on long-term gailing of shares after 12 months does not attract this tax or tax or tax on long-term gailing of shares after 12 months does not attract this tax or tax o However, a gain on selling of shares before 12 months is termed short-term g

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paid.

The above mentioned indirect taxes have been subsumed under GST with effect from July 2017. Let us now study about GST.

and attracts a tax at a flat rate of 10 per cent. Further, for a trader, all his gains are treated as trading (Business) gains and he has to pay tax as per tax sables. In this case, the transaction tax paid by him can be claimed back/adjusted in tax to be

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## 3.3.1 Goods and Services Tax (GST), 2017

The introduction of Goods and Services Tax on 1 July 2017 was a very significant step in the field of indirect tax reforms in India. By amalgamating a large number of Central and State taxes into a single tax, the aim was to mitigate cascading or double taxation in a major way and pave the way for a common national market. It is being held as the largest tax reform by a number of renowned economists after the Independence of India. GST has brought radical change in the taxation system of India. From the consumer's point of view, the biggest advantage is in terms of reduction in the overall tax burden on goods, which was estimated to be around 25–30 per cent. Introduction of GST has also made Indian products competitive in the domestic and international markets. The system has been evolved as a new regime against the different categories of taxes imposed by the State Governments as well as the central government. The new tax system known as GST has been imposed as an indirect tax system to encourage a single market under the single tax system. The Indian Constitution has also been amended with this effect.

## Salient Features of GST

The salient features of GST are as follows:

- GST is applicable on 'supply' of goods or services as against the present concept of tax on manufacture of goods or on sale of goods or on provision of services.
- (ii) GST is based on the principle of destination based consumption taxation as against the present principle of origin-based taxation.
- (iii) The GST to be levied by the Centre is called Central GST (central tax- CGST) and that to be levied by the States (including Union territories with legislature) is called State GST (State tax- SGST). Union territories without legislature will levy Union territory GST (Union Territory tax- UTGST).
- (iv) An Integrated GST (integrated tax-IGST) is levied on inter-State supply (including stock transfers) of goods or services. This is collected by the Centre so that the credit chain is not disrupted.
- (v) Import of goods is treated as inter-State supplies and is covered under IGST in addition to the applicable customs duties.
- (vi) Import of services is treated as inter-State supplies and is subject to IGST.
- (vii) CGST, SGST/UTGST & IGST is levied at rates to be mutually agreed upon by the Centre and the States under the guidance of the GSTC (Goods and Service Tax Council).
- (viii) GST has replaced the following taxes currently levied and collected by the Centre:
  - Central Excise Duty
  - Duties of Excise (Medicinal and Toilet Preparations)

- Additional Duties of Excise (Goods of Special Importance)
- Additional Duties of Excise (Textiles and Textile Products)
- Additional Duties of Customs (commonly known as CVD)
- Special Additional Duty of Customs (SAD)
- Service Tax
- Cesses and surcharges insofar as they relate to supply of goods or services
- (ix) State taxes that are subsumed within the GST are:
  - State VAT
  - Central Sales Tax
  - Purchase Tax
  - Luxury Tax
  - Entry Tax (All forms)
  - Entertainment Tax (except those levied by the local bodies)
  - Taxes on advertisements
  - Taxes on lotteries, betting and gambling
  - State cesses and surcharges insofar as they relate to supply of goods of
- (x) GST applies to all goods and services except alcohol for human consumption.
- (xi) GST on five specified petroleum products (Crude, Petrol, Diesel, ATF & Natur gas) will be applicable from a date to be recommended by the GSTC.
- (xii) Tobacco and tobacco products are subject to GST.
- (xiii) A common threshold exemption is applicable to both CGST and SGST. Taxpay with an annual turnover of ₹20 lakh (₹10 lakh for special category States (exception) J&K) as specified in article 279A of the Constitution) are exempt from GST composition scheme (i.e., to pay tax at a flat rate without credits) is available small taxpayers (including to manufacturers other than specified category) manufacturers and service providers) having an annual turnover of up to enumerated in article 2704 of the Country States (except J&K and Uttarakhand enumerated in article 279A of the Constitution).
- (xiv) The list of exempted goods and services is kept to a minimum and has be harmonized for the Centre and the States as well as across States as far
- (xv) All exports and supplies to SEZs and SEZ units are zero-rated.
- (xvii) Accounts are periodically settled between the Centre and the States to ens that the credit of SGST used for payment of IGST is transferred by the origination of IGST is transferred by the IGST is transferred by IGS State to the Centre. Similarly, the IGST used for payment of SGST is transferred by the original by the Centre to the destination State. by the Centre to the destination State. Further, the SGST portion of IGST collection B2C supplies is transferred by the Centre to the destination of IGST collection of IGST collections. on B2C supplies is transferred by the Centre to the destination State. The transferred out on the basis of funds is carried out on the basis of the of funds is carried out on the basis of information contained in the returns filed
- (xviii) Input Tax Credit (ITC) to be broad based by making it available in respect taxes paid on any supply of goods or services or both used or intended to be used

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(xix) Electronic filing of returns by different class of persons at different cut-off dates.

- (xx) Various modes of payment of tax available to the taxpayer including Internet banking, debit/credit card and National Electronic Funds Transfer (NEFT) / Real Time Gross Settlement (RTGS).
- (xxi) Obligation on certain persons including government departments, local authorities and government agencies, who are recipients of supply, to deduct tax at the rate of 1 per cent from the payment made or credited to the supplier where total value of supply, under a contract, exceeds two lakh and fifty thousand rupees. The provision for TDS has not been operationalized yet.
- (xxii) Refund of tax to be sought by taxpayer or by any other person who has borne the incidence of tax within two years from the relevant date.
- (xxiv) System of self-assessment of the taxes payable by the registered person.
- (xxv) Audit of registered persons to be conducted in order to verify compliance with the provisions of Act.
- (xxvi) Limitation period for raising demand is three years from the due date of filing of annual return or from the date of erroneous refund for raising demand for shortpayment or non-payment of tax or erroneous refund and its adjudication in normal cases.
- (xxvii) Limitation period for raising demand is five years from the due date of filing of annual return or from the date of erroneous refund for raising demand for shortpayment or non-payment of tax or erroneous refund and its adjudication in case of fraud, suppression or willful mis-statement.
- (xxviii) Arrears of tax to be recovered using various modes including detaining and sale of goods, movable and immovable property of defaulting taxable person.
- (xxix) Goods and Services Tax Appellate Tribunal has been constituted by the central government for hearing appeals against the orders passed by the Appellate Authority or the Revisional Authority. States will adopt the provisions relating to Tribunal in respective SGST Act.
- (xxx) Provision for penalties for contravention of the provision of the proposed legislation has been made.
- (xxxi) Advance Ruling Authority has been constituted by States in order to enable the taxpayer to seek a binding clarity on taxation matters from the department. Centre has adopted such authority under CGST Act.
- (xxxii) An anti-profiteering clause has been provided in order to ensure that business passes on the benefit of reduced tax incidence on goods or services or both to the consumers.
- (xxxiii) Elaborate transitional provisions have been provided for smooth transition of existing taxpayers to GST regime.

## Benefits of GST

## (A) Make in India

- It has helped to create a unified common national market for India, giving a boost to foreign investment and 'Make in India' campaign.
- (ii) It has prevented cascading of taxes as Input Tax Credit is available across goods and services at every stage of supply.

- (iii) Harmonization of laws, procedures and rates of tax.
- (iv) It has given an impetus to export and manufacturing activity, generated more employment and, thus, increased GDP with gainful employment leading to substantial economic growth.
- (v) Ultimately, it will help in poverty eradication by generating more employment and more financial resources.
- (vi) More efficient neutralization of taxes especially for exports thereby making out products more competitive in the international market and giving boost to Indian
- (vii) It has improved the overall investment climate in the country which will naturally benefit the development of the States.
- (viii) Uniform SGST and IGST rates will reduce the incentive for evasion by eliminating rate arbitrage between neighboring States and that between intra and inter-State
- (ix) Average tax burden on companies will decline which is expected to reduce price and lower prices mean more consumption, which in turn means more production thereby helping in the growth of the industries. This will create India as a 'Manufacturing hub'.

## (B) Ease of Doing Business

- Simpler tax regime with fewer exemptions.
- (ii) Reduction in multiplicity of taxes that are at present governing our indirect 150 system leading to simplification and uniformity.
- (iii) Reduction in compliance costs -- no multiple record-keeping for a variety of taxes so lesser investment of resources and manpower in maintaining records.
- (iv) Simplified and automated procedures for various processes such as registration returns, refunds, tax payments and so forth.
- (v) All interaction to be through the common GSTN portal- so less public interface between the taxpayer and the tax administration.
- (vi) It will improve environment of compliance as all returns to be filed online, in place of the provided online, in place of the place of the
- (vii) Common procedures for registration of taxpayers, refund of taxes, uniform forms of tax return, common tax base, common system of classification of goods and services will lend greater cartes the services will lend greater the services will be serviced by the serviced by the services will be serviced by the serviced by the servi services will lend greater certainty to taxation system.
- (viii) Timelines to be provided for important activities like obtaining registration, refund

## (C) Benefit to Consumers

- (i) The final price of goods is expected to be lower due to seamless flow of input to credit between the manufacturer, retailer and supplier of services.
- (ii) It is expected that a relatively large segment of small retailers will be either exempted from tax or will suffer very law. exempted from tax or will suffer very low tax rates under a compounding scheme purchases from such entities will cost less for the consumers.
- (iii) Average tax burden on companies is likely to come down which is expected of the consumers. reduce prices and lower prices mean more consumption.

### Overview of the Economy and fiscal deficit

- Economic growth expected at 6.5 per cent in 2016-17.
- IMF expects India to grow at 7.2 per cent in 2017 and 7.7 per cent in 2018.
- CPI inflation has come down to 3.4 per cent in December 2016 from 6.0 per cent in July 2016.
- Ourrent Account deficit declined from about 1 per cent of Gross Domestic Product (GDP) last year to 0.3 per cent of GDP in the first half of 2016-17.
- o Foreign exchange reserves have reached US\$ 361 billion as on January 20,
- o Revenue deficit of 2.3 per cent (of GDP) in Budget Estimates (BE) 2016-17 stands reduced to 2.1 per cent in the Revised Estimates (RE). The Revenue deficit for next year is pegged at 1.9 per cent.

## Budget Estimates 2017-18

- o Total receipts (excluding Borrowings and other liabilities) estimated at ₹15.16 lakh crore (US\$ 224 billion), a growth of 6.48 per cent.
- o Revenue receipts comprise of ₹ 12.27 lakh crore (US\$ 181 billion) of tax revenues and ₹ 2.88 lakh crore (US\$ 42.7 billion) of non-tax revenues.
- Total expenditure estimated at ₹21.47 lakh crore (US\$ 317 billion), an increase of 6.57 per cent over previous year.
- Plan / Non-Plan classification to be done away with from 2017-18. Instead, expenditure will now be classified henceforth into 'Scheme' and 'Non-Scheme' expenditure. Every new scheme sanctioned to have a sunset date and an outcome review.
- o Total scheme expenditure expected to be ₹9.45 lakh crore (US\$ 139.7 billion).
- Total non-scheme expenditure expected to be  $\stackrel{<}{_{\sim}}$  12.02 lakh crore (US\$ 177.6
- o Expenditure on revenue account is expected to be ₹ 18.37 lakh crore (US\$ 271.5 billion), or 85.57 per cent of total expenditure.

## Financial Performance 2016-17

### Receipts

- o Total receipts (excluding Borrowings and other liabilities) stood at ₹ 14.24 lakh crore (US\$ 210.5 billion) in Revised Estimates (RE), which is more than the Budgeted Estimates (BE) of ₹ 13.77 lakh crore (US\$ 203.6 billion) by ₹ 46,540 crore (US\$ 6.88 billion), led by higher tax collections.
- o Tax revenues stood at ₹ 10.89 lakh crore (US\$ 160.9 billion) in RE, which were more than the BE of ₹ 10.54 lakh crore (US\$ 155.8 billion) by ₹ 34,691 crore (US\$ 5.13 billion), led by higher excise and service tax collections.
- o There was an substantial increase of 21.6 per cent in collection of Union Excise Duties which stood at ₹3.87 lakh crore (US\$ 57.2 billion) in RE, an increase of ₹ 68,700 crore (US\$ 10.15 billion) over the BE of ₹ 3.18 lakh crore (US\$ 47 billion).

### Expenditure

#### NOTES

- Total expenditure was ₹20.14 lakh crore (US\$ 297.7 billion) in RE, which exceeded the BE of ₹ 19.78 lakh crore (US\$ 292.4 billion) by ₹ 36,347 cross (US\$ 5.37 billion).
- Total scheme expenditure expected to be ₹9.45 lakh crore (US\$ 139.7 billion) Total non-scheme expenditure expected to be ₹ 12.02 lakh crore (US\$ 177.6
- Expense on defence sector was lower by 0.44 per cent or ₹ 1,094 crore (US) 161 million) in RE, while that on pensions was higher by 3.89 per cent Significantly, subsidies expenditure RE was lower by 0.5 per cent than BE

#### Farmers -

- Target for agricultural credit in 2017-18 has been fixed at a record level of 10 lakh crore (US\$ 147.8 billion).
- Farmers will also benefit from 60 days' interest waiver announced on 3
- o Coverage under Fasal Bima Yojana scheme will be increased from 30 pt cent of cropped area in 2016-17 to 40 per cent in 2017-18 and 50 per cent 2018-19 for which a budget provision of ₹9,000 crore (US\$ 1.33 billion) 15
- o The Long Term Irrigation Fund already set up in NABARD to be augment by 100 per cent to take the total corpus of this fund to ₹40,000 crore (US\$ 50
- Dedicated Micro Irrigation Fund in NABARD to achieve 'per drop mof crop' with an initial corpus of ₹5,000 crore (US\$ 739 million).
- o Coverage of National Agricultural Market (e-NAM) to be expanded from 250 markets to 585 APMCs. Assistance up to ₹75 lakhs (US\$ 110,872) be provided to every e-NAM.
- o Dairy Processing and Infrastructure Development Fund to be set up NABARD with a corpus of ₹ 2,000 crore (US\$ 296 million) and will be increased to ₹ 8,000 crore (US\$ 296 million). increased to ₹8,000 crore (US\$ 1.2 billion) over 3 years.

# • Rural Population- Allocation: ₹1,87,223 crore (US\$ 27.7 billion)

- o Over ₹3 lakh crore (US\$ 44.3 billion) were spent on rural areas every year
- According to Mission Antyodaya, 10 million households will be brought out.
- poverty and 50,000 gram panchayats will be made poverty-free by 2019. o Under the Prime Minister Gram Sadak Yojana, ₹ 19,000 crore (US\$ 2.8 billion) has been allocated along with states, while ₹27,000 crore (US\$ 2.8 billion) expected to be spent in FV18
- o Under the Pradhan Mantri Awas Yojana, ₹23,000 crore (US\$ 3.4 billion) allocated for 2017-18 to complete 10 and the state of the stat allocated for 2017-18 to complete 10 million houses by 2019 for the house
- A sum of ₹ 48,000 crore (US\$ 7.1 billion) allocated for Mahatma Gando National Rural Employment Guarantee Scheme (MGNREGS).
- o Rural livelihood mission has been allocated ₹4,500 crore (US\$ 665 million)

o A 100 per cent village electrification target looks achievable by 1 May 2018

- o PMGSY roads construction accelerated to 133 km roads per day in 2016-17, against 73 km during 2011-14.
- o Women participation in MGNREGS has increased to 55 per cent from less than 48 per cent.

#### Youth

- Skill Acquisition And Knowledge Awareness for Livelihood Promotion program (SANKALP) will be launched at a cost of ₹ 4,000 crore (US\$ 591 million) providing market relevant training to 35 million youth.
- o Pradhan Mantri Kaushal Kendras to be extended to more than 600 districts across the country for imparting skill education. About 100 India International Skills Centres will be established across the country.
- SWAYAM platform to be launched with at least 350 online courses enabling students to virtually attend courses taught by best faculty.
- Next phase of Skill Strengthening for Industrial Value Enhancement (STRIVE) will also be launched in 2017-18 at a cost of ₹2,200 crore (US\$ 325 million).
- o Incredible India 2.0 campaign will be launched across the world to promote tourism and employment.

## The Poor and the underprivileged:

- Mahila Shakti Kendra will be set up with an allocation of ₹500 crore (US\$ 73.9 million) in 1.4 million Integrated Child Development Scheme (ICDS) Anganwadi Centres. This will provide one stop convergent support services for empowering rural women with opportunities for skill development, employment, digital literacy, health and nutrition.
- o Under Maternity Benefit Scheme ₹ 6,000 (US\$ 89) each will be transferred directly to the bank accounts of pregnant women who undergo institutional delivery and vaccinate their children.
- National Housing Bank will refinance individual housing loans of about ₹20,000 crore (US\$ 2.9 billion) in 2017-18.
- o Government has prepared an action plan to eliminate Kala-Azar and Filariasis by 2017, Leprosy by 2018, Measles by 2020 and Tuberculosis by 2025.
- o The allocation for Scheduled Castes has been increased by 35 per cent compared to BE 2016-17. The allocation for Scheduled Tribes has been increased to ₹31,920 crore (US\$ 4.7 billion) and for Minority Affairs to ₹4,195 crore (US\$ 620 million).
- Action plan has been prepared to reduce Infant Mortality Rate (IMR) from 39 in 2014 to 28 by 2019 and Maternal Mortality Rate (MMR) from 167 in 2011-13 to 100 by 2018-2020.

## Infrastructure

- Provision has been made of ₹241,387 crore (US\$ 35.7 billion) in 2017-18 for transportation sector as a whole, including, rail, roads and shipping.
- For 2017-18, the total capital and development expenditure of Railways has been pegged at ₹ 1,31,000 crore (US\$ 19.4 billion). This includes ₹ 55,000 crore (US\$ 8.1 billion) provided by the Government.

- o For passenger safety, a Rashtriya Rail Sanraksha Kosh will be created with: corpus of ₹ 1 lakh crore (US\$ 14.8 billion) over a period of 5 years.
- Railway lines of 3,500 kms will be commissioned in 2017-18.
- It is proposed to feed about 7,000 stations with solar power in the medium
- In the road sector, Budget allocation for highways increased from ₹57.976 crore in BE 2016-17 to ₹ 64,900 crore (US\$ 9.6 billion) in 2017-18.
- o Total length of roads, including those under PMGSY, built from 2014-15 till the current year is about 1,40,000 kms which is significantly higher than previous three years.
- Second phase of Solar Park development to be taken up for additional 20,000 MW capacity.
- For creating an eco-system to make India a global hub for electronic manufacturing a provision of ₹745 crore (US\$ 110 million) in 2017-18 incentive schemes like Modified-Special Incentive Package Scheme (M-SIPS and Electronic Development Fund (EDF).

### · Financial sector

- Lending target under Pradhan Mantri Mudra Yojana to be set at ₹2.44 lall crore (US\$ 36.1 billion). Priority will be given to Dalits, Tribals, Backwaf Classes and Women.
- In line with the 'Indradhanush' roadmap, ₹10,000 crore (US\$ 1.48 billion) recapitalisation of Banks provided in 2017-18.
- Foreign Investment Promotion Board (FIPB) to be abolished in 2017-18 further liberalisation of Foreign Direct Investment (FDI) policy is under
- o A Computer Emergency Response Team for our Financial Sector (CER)
- Government will put in place a revised mechanism and procedure to ensur time bound listing of identified Central Public Sector Enterprises (CPSEs) stock exchanges. The shares of Railway PSEs like IRCTC, IRFC and IRCO will be listed in stock exchanges.

## Digital economy

- A Mission will be set up with a target of 25 billion digital transactions for 201 18 through Unified Payment Interface (UPI), Unstructured Supplemental Service Data (USSD), Andhar Pay Lee (UPI), Unstructured Supplemental (USSD), Andhar Paymental (USSD), Andhar (USSD), Service Data (USSD), Aadhar Pay, Immediate Payment Service (IMPS) debit cards. A task force has been constituted for rationalisation of humps
- o Banks have targeted to introduce additional 1 million new Point-of-Sales (POF) terminals by March 2017. They will be terminals by March 2017. They will be encouraged to introduce 2 million new Point-of-Sales V Aadhar based POS by September 2017. Aadhar based POS by September 2017.
- Aadhar Pay, a merchant version of Aadhar Enabled Payment System, will launched shortly.
- o 12.5 million people have adopted the Bharat Interface for Money (BH) app so far. The Government will launch two new schemes to promote

usage of BHIM; these are Referral Bonus Scheme for individuals and a Cashback Scheme for merchants.

Public Revenue

#### Public service

- o A Centralised Defence Travel System has been developed through which travel tickets can be booked online by our soldiers and officers.
- Web based interactive Pension Disbursement System for Defence Pensioners will be established.

### Prudent fiscal management

- o Capital expenditure allocation has been stepped up by 25 per cent over the previous year.
- o Total resources being transferred to the States and the Union Territories with Legislatures is ₹4.11 lakh crore (US\$ 60.8 billion), against ₹3.60 lakh crore (US\$ 53.2 billion) in BE 2016-17.
- Fiscal Responsibility and Budget Management (FRBM) Committee has recommended 3 per cent fiscal deficit for the next three years, keeping in mind the sustainable debt target and need for public investment, fiscal deficit for 2017-18 is targeted at 3.2 per cent of GDP and Government remains committed to achieve 3 per cent in the following year.
- Net market borrowing of Government restricted to ₹3.48 lakh crore (US\$ 51.4 billion) after buyback in 2017-18, much lower than ₹ 4.25 lakh crore (US\$ 62.8 billion) of the previous year.
- o Revenue deficit of 2.3 per cent in BE 2016-17 stands reduced to 2.1 per cent in the Revised Estimates. The Revenue Deficit for next year is pegged at 1.9 per cent, against 2 per cent mandated by the FRBM Act.

## Promoting affordable housing and real estate sector

- Under the scheme for profit-linked income tax deduction for promotion of affordable housing, carpet area instead of built up area of 30 and 60 Sq.mtr.
- The 30 Sq.mtr. limit will apply only in case of municipal limits of 4 metropolitan cities while for the rest of the country including in the peripheral areas of metros, limit of 60 Sq.mtr. will apply.
- Reduction in the holding period for computing long term capital gains from transfer of immovable property from 3 years to 2 years. Also, the base year for indexation is proposed to be shifted from 1.4.1981 to 1.4.2001 for all classes of assets including immovable property.
- Between 8 November and 30 December 2016, deposits between ₹2 lakh (US\$ 2,957) and ₹ 80 lakh (US\$ 118,263) were made in about 10.9 million accounts with an average deposit size of ₹ 5.03 lakh (US\$ 7,436). Deposits of more than 80 lakh (US\$ 118,263) were made in 148,000 accounts with average deposit size of ₹3.31 crore (US\$ 489,313).

## Measures for stimulating growth

 Concessional withholding rate of 5 per cent charged on interest earned by foreign entities in external commercial borrowings or in bonds and Government securities is extended to 30 June 2020, including rupee denominated (Masala) Bonds.

- In order to make Micro, Small and Medium Enterprises (MSME) companies more viable, income tax for companies with annual turnover upto ₹ 50 crore (US\$ 7.4 million) is reduced to 25 per cent.
- For the purpose of carry forward of losses in respect of start-ups, the condition of continuous holding of 51 per cent of voting rights has been relaxed subject to the condition that the holding of the original promoter/promoters continues Also the profit (linked deduction) exemption available to the start-ups for3 years out of 5 years is changed to 3 years out of 7 years.
- Minimum Alternate Tax (MAT) credit is allowed to be carried forward up 10 a period of 15 years instead of 10 years at present.
- Basic customs duty on Liquefied Natural Gas (LNG) reduced from 5 per cent to 2.5 per cent.
- Allowable provision for Non-Performing Asset (NPA) of banks increased from 7.5 per cent to 8.5 per cent.

## Promoting digital economy

- Under scheme of presumptive income for small and medium tax payers whose turnover is up to ₹ 2 crore (US\$ 295,658) at present, 8 per cent of the turnover which is counted as presumptive income is reduced to 6 per cent if respect of turnover which is by non-cash means.
- No transaction above ₹300,000 (US\$ 4,435) will be permitted in cash subject to certain exceptions.

## Transparency in electoral funding

- A political party can receive a maximum of ₹2,000 (US\$ 30) in cash from one
- Every political party would have to file its returns within the time prescribed in accordance with the provision of the Income-tax Act.
- o Existing exemption to the political parties from payment of income-tax would be available only subject to the fulfilment of these conditions.

## Ease of doing business

- Threshold limit for audit of business entities who opt for presumptive incompanies incompanies in the second secon scheme increased from ₹1 crore (US\$ 147,829) to ₹2 crore (US\$ 295,658) Similarly, the threshold for maintenance of books for individuals and HUF increased from turnous of 101sts. increased from turnover of ₹ 10 lakhs (US\$ 14,783) to ₹ 25 lakhs (US\$ 36,957) or income from ₹ 1.2 lakhs (US\$ 1,774) to ₹ 2.5 lakhs (US\$ 3,696).
- o Under scheme for presumptive taxation for professionals with receipt upto 50 lakhs (US\$ 73,914) p.a. advance tax can be paid in one instalment instead of four.
- o Time period for revising a tax return is being reduced to 12 months front completion of financial year at recent the being reduced to 12 months front to the complete of the completion of financial year, at par with the time period for filing of return Personal income-tax

o Existing rate of taxation for individual assesses between income of ₹2 lakhs (US\$ 3,695) to 5 lakhs (US\$ 7.201) lakhs (US\$ 3,695) to 5 lakhs (US\$ 7,391) has been reduced to 5 per cent from

and ₹ 1 crore (US\$ 147,829). The surcharge of 15 per cent for annual taxable income above ₹1 crore remains. Individuals having taxable income upto ₹5 lakhs (US\$7,391) other than business

Surcharge of 10 per cent of tax payable will be levied on categories of

individuals whose annual taxable income is between ₹50 lakhs (US\$ 73,914)

NOTES

## income can file a simple one-page form as income tax return. Goods and services tax (GST)

- The GST Council has finalised its recommendations on almost all the issues based on consensus on the basis of 9 meetings held.
- Preparation of IT system for GST is also on schedule.
- o The extensive reach-out efforts to trade and industry for GST will start from 1 April 2017 to make them aware of the new taxation system.

## RAPID (Revenue, Accountability, Probity, Information and Digitisation)

- Maximise efforts for e-assessment in the coming year
- Enforcing greater accountability of officers of Tax Department for specific act of commission and omission.

## B. Non-Tax Revenues

- 1. Non-tax sources of public revenues are defined as payment made to the Government for which there is a quid pro quo (an exchange of goods or services, where one transfer is contingent upon the other). However, these non-tax sources do not have similar features and are classified into three categories:
  - First, there are some sources that are compulsory and requited payments. These sources include penalties (other than penalties on non-compliance of
  - The second category consists of voluntary and unrequited receipts. These payments include donations and contributions made to the Government or any unclaimed funds lying with the Government.
  - The third category comprises voluntary and requited payments, including revenue earned from the resources owned by the Government such as forest, marine, riparian habitats and wildlife. This category also has revenue earned by sale of usage rights, admission fee, as well as the royalties and rental payments received by the Government. Income earned in the form of dividends and the interest receipts from investments made by the Government also fall into this category. Interest, profits and dividends arising from the States' commercial undertakings are also included in this category.

## Administrative non-tax receipts

This source accounts for about three-fourths of the States' own non-tax revenue. In the future, this is the source of non-tax revenues for a source of non-tax revenues for the states' own non-tax revenues for the source of non future, this is likely to be the most productive and reliable source of non-tax revenues for the States. The States are the States and reliable source of non-tax revenues for the States. The States are the states are the states are the states are the states and reliable source of non-tax revenues for the States. the States. Three broad components of administrative receipts, viz. general services, social services. Social services, and economic services.

(i) Receipts from general services: These comprise receipts from Public Service
Comprise from general services: These comprise receipts from Public Services. Commission, Police, Jails, Supplies and disposals, Stationery and printing, Public Works. Or Works, Other administrative services, Contribution and recoveries towards pension and others. and other retirement benefits, and Other miscellaneous general services.

- (ii) Receipts from social services: The major items that come under this class are (a) Education, sports, arts and culture, (b) Medical and public health, (c) Family welfare, (d) Water supply and sanitation, (e) Housing, (f) Urban development (g) Information and publicity, (h) Labour and employment, (i) Social security and welfare, and (j) Other social services.
- (iii) Receipts from economic services: Major items under this class are (a) Crophusbandry, (b) Animal husbandry, (c) Dairy development, (d) Fisheries, (e) Forestry and wild life, (f) Co-operation, (g) Other agricultural and rural programmes. (h) Special area programmes, (i) Major and medium irrigation, (j) Minor irrigation. (k) Village and small scale industries, (l) Industries, (m) Non-ferrous mining and metallurgical industries, (n) Roads and bridges, (o) Tourism, and (p) Others.

### User charges

The non-tax revenue in lieu of the provision of goods and services by the Government derived through 'user charges'. These charges indicate payments that are administratively determined for the goods and services provided by the Government. As stated by the OECD, these are requited payments. However, the link between payments and services provided may vary considerably in terms of degree of cost recovery. These include payments in exchange for non-capital goods and services—e.g. charges for education and health; entry charge for museum, parks, etc.; and rent for housing.

However, the OECD definition is subject to some ambiguities as it distinguished between capital, and non-capital goods and services. The Government is providing capital goods in the form of urban infrastructure. These are used for domestic as well as for industrial purposes and accordingly, the user charges should also vary.

## Current status of non-tax revenues in India

Non-tax revenues grew at a compound annual rate of 7.6 per cent in the 10 years ending 2009-10. The spurt in 2010-11 owed to higher-than-budgeted realization from the proceeds of auction of telecom 3G/broadband wireless access spectrum. As against the estimated revenue of ₹1,25,435 crore in 2011-12 (BE), the realization fell marginally short phase III FM Radio which were to bring in ₹14,600 crore could not take place. Budge mainly on account of estimated receipts of ₹40,000 crore from the telecom spectrum auction. As the 2Gtelecom spectrum auction elicited lukewarm response on account the high reserve price in the current year, the government has revised the reserve price the actual fiscal outcome for 2012-13. The other main component is dividends and profile which have also in the past exhibited sluggish growth.

## Check Your Progress

- 3. What is meant by a direct tax?
- 4. What is an indirect tax?

## 3.4 CANONS OF TAXATION

A tax system (that is, the set of all taxes) for achieving certain objectives, chooses adheres to certain principles which are termed its characteristics. A good tax system as equality and certainty. Mostly, however, objectives of taxation conflict with each other and a compromise is needed. Therefore, usually economists select some important

objectives and work out the corresponding principles which the tax system should adhere to. The first set of such principles was enunciated by Adam Smith (which he called Canons of Taxation).

Adam Smith was interested in the ways by which an economy can increase its productive capacity and thereby achieve a higher rate of growth. Further, he was of the firm view that private sector is more efficient than the public one and, therefore, the primary responsibility of economic growth should rest with the private sector. Economic growth necessitates large scale saving and investment. It is also essential that the investment should be along productive lines. All told, therefore, he was of the view that the private sector should be entrusted with the maximum possible economic responsibility the private sector should be entrusted with the maximum possible economic responsibility for an efficient discharge of which it should be given as much freedom as possible. The only additional consideration should be the adequacy of revenue for the State (for its only additional consideration should be the adequacy of revenue for the State (for its own maintenance, for defence, for law and order, and for social overheads) and an own maintenance, for defence. With this end in view, he laid down those principles of taxation which were to satisfy these conditions.

The four canons of taxation as prescribed by Adam Smith are the following:

- 1. Canon of equality: 'The subjects of every State ought to contribute towards the support of the government, as nearly as possible, in proportion to their respective abilities; that is, in proportion to the revenue which they respectively enjoy under the protection of the State.' This canon tries to observe the objective of economic justice. It dictates that in absolute terms the richer should pay more taxes because without the protection of the State they could not have earned and enjoyed that extra income. If we interpret this principle in terms of disutility which the tax payers suffer by paying taxes, it follows that the tax should impose equal marginal payers suffer by paying taxes, it follows that the tax should impose equal marginal disutility upon every tax payer. Two possibilities emerge in this case. If incomes are subject to constant marginal utility, then both the rich and the poor should be subjected to proportional taxation each person paying a given percentage of his subjected to proportional taxation each person paying a given percentage of his income as tax. On the other hand, if we agree with the more realistic proposition income is subject to diminishing marginal utility, then the richer should pay a that income is subject to diminishing marginal utility, then the proposition of their incomes as taxes (that is, the taxes should be progressive).
- 2. Canon of certainty: This canon is meant to protect the taxpayers from unnecessary harassment by the 'tax officials'. 'The tax which each individual is bound to pay ought to be certain, and not arbitrary. The time of payment, the manner of payment, the quantity to be paid, ought all to be clear and plain to the contributor, and to every other person.' The taxpayers should not be subject to contributor, and to every other person.' The taxpayers should not be subject to arbitrariness and discretion of the tax officials, since that breeds a corrupt tax arbitrariness and discretion of the tax officials, since that breeds a corrupt tax administration. With a scope for arbitrariness even an honest tax machinery will administration. With a scope for arbitrariness of an arbitrarine are unpopular. Smith is so emphatic about this principle as to claim 'that a become unpopular. Smith is so emphatic about this principle as to claim 'that a scope for arbitrarines' is not near so great an evil as a very very considerable degree of inequality... is not near so great an evil as a very small degree of uncertainty.'
- Canon of convenience: The mode and timings of tax payment should be, so far
  as possible, convenient to the taxpayer. This canon recommends that unnecessary
  trouble to the taxpayer should be avoided, otherwise various ill effects may
  trouble to the taxpayer should be avoided.
- Canon of economy: This canon recommends that cost of collection of taxes should be the minimum possible. It is useless to impose taxes which are too widespread and difficult to administer. These taxes entail an unnecessary burden

upon the society in the form of additional administrative expense. The productive efforts of the people suffer due to this wastage. Realizing that the tax collections are being wasted, the taxpayers also tend to evade them.

These canons of taxation have a sound philosophy behind them and exhibit an insight into the practical aspects of tax administration and its effects. However, in view of developments in economic philosophy and problems of a modern State, a few additional principles were also suggested by later writers. A brief description of these is as follows:

- Canon of productivity: It is also called the canon of fiscal adequacy. According
  to this principle the tax system should be able to yield enough revenue for the
  treasury and the government should have no need to resort to deficit financing.
- Canon of buoyancy: The tax revenue should have an inherent tendency to increase
  along with an increase in national income, even if the rates and coverage of taxes
  are not revised.
- Canon of flexibility: It should be possible for the authorities, without undudelay, to revise the tax structure, both with respect to its coverage and rates, but the changing requirements of the economy and of the treasury.
- Canon of simplicity: The tax system should not be too complicated. That make it difficult to understand and administer and breeds problems of interpretation and legal disputes.
- 5. Canon of diversity: It is risky for the State to depend upon too few sources of public revenue. Such a system is bound to breed a lot of uncertainty for the treasury. It is also likely to be inequitable as between different sections of the society. On the other hand, if the tax revenue comes from diversified sources then any reduction in tax revenue on account of any one cause is bound to be very small. However, too much multiplicity of taxes is also to be avoided. The leads to unnecessary cost of collection and violates the canon of economy.

In general, we must remember that the tax structure is a part of the economic organization of a society and should, therefore, fit in its overall economic philosophy. No tax system that does not satisfy this basic condition can be termed a good one. Over time, therefore ideas regarding what should form a good tax system have undergone an evolution.

# 3.5 BENEFIT APPROACH OF TAXATION

This theory proceeds on the assumption that there is basically an exchange or contractive relationship between taxpayers and the State. The State provides certain goods and services to the members of society and they contribute to the financing of these supplies in proportion to the benefits received by them. In this quid pro quo set up, there is the received are taken to represent the basis for distributing the tax burden in a specific growth or economic stabilization in the country.

Services supplied by the State may be divided into two categories. The first case every member of the society consumes these services and, therefore, should category is the one where the taxpayers have the option to accept or reject the state revenue in accordance with the benefits received. But the other services. Here a market relationship is established between the two and, therefore

## NOTES

### Check Your Progress

- What does the canon of simplicity stand for?
- 6. What is a good taxation system?

what the members of the society pay are the fees and the prices and not the taxes in strict sense of the term. Taxes are by definition compulsory payments without quid pro quo and this condition is not satisfied in this case.

The Benefits Received Theory has a long dated origin and its roots lie in the contract theory of the State. A fuller survey of the evolution of this theory is available in Professor Edwin R. Seligman's *Progressive Taxation in Theory and Practice*. The theory was in vogue with German, French and other writers like Grotius, Hobbes, Locke, Hume and Rousseau. Its main theme is that there is a contractual relationship between the State and its subjects such that the State provides various goods and services and the citizens finance their provision by paying taxes.

### Hurdles

As in the case of other theories, several problems crop up in its practical application. Since tax burden is to be distributed between taxpayers in proportion to the benefits received by them from State services, the authorities have to identify the beneficiaries and quantify the benefits derived by them. This, however, is not an easy task.

- (i) Benefits derived from State services are closely related to the distribution pattern of income and wealth in the country. It is so because amongst other things, income distribution is a major determinant of demand pattern including demand for State distribution is a major determinant of demand pattern including demand for State services. Therefore, it has to be assumed that the existing distribution of income and wealth is an appropriate one and there is no need to change it.
- (ii) Benefit derived by an individual from State services is ultimately a subjective thing and it is conditioned not only by the State services enjoyed by the individual under consideration, but also the availability of these services to other members under community as also the attitudes of their beneficiaries. There is no standard of the community as also the attitudes and, as a result, depending upon the set of format or pattern of these attitudes and, as a result, depending upon the set of attitudes of community members, a given amount and variety of State services may yield divergent measures of derived benefits.
- (iii) It is possible that State services may lead to a net addition to or reduction in national income. This theory does not tell us what to do in this case.
- (iv) Several State services have spillover effects, and frequently it is very difficult to pinpoint the losers and gainers and quantify their losses and gains. For example, provision of health services to residents of a locality is likely to have a beneficial provision of health services to residents of a locality is likely to have a beneficial impact upon the health of the neighbouring colonies as well. Again, if a slum area impact upon the health of the neighbouring colonies as well. Again, if a slum area is improved by the State, some of those living in nearby palatial houses may be happier for it, while some others may feel that their comparatively 'higher' status has been accompanied.
- (v) This theory does not tell us whether the losers are to be compensated by the state

or not, and if so, who pays for that.

Since, in the ultimate analysis, benefit derived from State services is a subjective thing, there is no scientific way of quantifying it. At the most, it may be possible to consider there is no scientific way of quantifying it. At the most, it may be possible to consider there is no scientific way of quantifying it. At the most, it may be possible to consider there is no scientific way of quantifying it. At the most, it may be possible to consider there is no scientific way of quantifying it. At the most, it may be possible to consider there is no scientific way of quantifying it. At the most, it may be possible to consider there is no scientific way of quantifying it. At the most, it may be possible to consider there is no scientific way of quantifying it. At the most, it may be possible to consider there is no scientific way of quantifying it. At the most, it may be possible to consider there is no scientific way of quantifying it. At the most, it may be possible to consider there is no scientific way of quantifying it. At the most, it may be possible to consider the property way of quantifying it. At the most, it may be possible to consider the property way of quantifying it.

For example, income is often used as an indicator of the benefits received from the State. This is because the society and its economy cannot be preserved without State protection. Members of the society can also earn and consume income and possess and enjoy wealth only if the State makes laws to that effect and enforces them. By and enjoy wealth only if the State makes have to their income and wealth. Implication, their tax liabilities should also be proportional to their income and wealth.

This was the stand taken by Adam Smith when he said that each individual ought to contribute to the public revenue according to his ability. Smith equated relative ability to pay off the taxpayers with incomes which they respectively enjoyed under State protection. Thus, in due course, the benefits approach gradually came to reflect a philosophy that taxation was basically a payment for the protection provided by the State.

It is, of course, interesting to note that even this narrow reasoning permitted contradictory results. Diametrically opposite opinions were expressed as to who was it greater need of State protection, the rich or the poor. Thus, while Rousseau and Sismond argued that the rich needed greater protection of the State, John Stuart Mill and other thought that the poor were in greater need of protection from exploitation by the rich. Thus, while one group of thinkers advocated progressive taxation, the other was it favour of regressive rates.

In late nineteenth and early twentieth centuries, the Benefits Received Theory was put to an additional use in simultaneously determining the optimum level of State activities and optimum distribution of tax burden. To this end, the concepts of demand and supply schedules were extended to demand for and supply of State services warying details. In each model, taxpayers were treated as buyers of State services with respective demand schedules and the government was treated as the supplier of the services. The basic problem was that, in several cases, it was not possible to determine demand schedules with any precision and taxes had to be charged by making certain simplifying assumptions.

In this connection, we may start with an Italian thinker, U. Mazolla (1863–1899) famous for his contribution to the theory of public goods. In 1880, he asserted that their is a basic difference between the characteristics of private and public goods in the septimate that the latter are all shared by the consumers and the principle of exclusion does not apply to them. Accordingly, instead of charging equal tax from each taxpayer for public goods, their liability should be determined in proportion to the relative marginal utility derived by them from the consumption of State services. In the process, each taxpayer would equate the marginal utility from his expenditure on the public and private goods.

In 1887, Emil Sax, an Austrian economist, made a distinction between person collective wants and collective wants proper. The principle of exclusion applies to the But in the latter case, fees or taxes can be charged according to the services receive can be left out of the benefit of these services. Accordingly, in this case the taxpayer consumption of public services. Sax advocates that a good proxy of the measure of the relative benefit would be the proportional income tax

In 1888, Antonio de Viti de Marco (another Italian economist) made an assumption similar to that of Sax that the members of the society consume public services in proportion to their incomes. This assumption should have led him to advocate proportional taxation larger incomes bring in lower marginal utility of income to the taxpayers. Singular incomes bring in lower marginal utility, the richer citizen ought to pay more for with that of the equitable distribution of sacrifice which is represented by ability to approach. He is not asserting that the richer people secure greater benefit approach. Singular is maintained by some others. The richer, therefore, are not to pay more taxes because of greater benefits, but because of lesser sacrifice involved in pay taxes. They are to pay more taxes because proportional taxation hurts the poorer taxes.

### Voluntary Exchange

In 1896, Knut Wicksell (a Swedish economist) provided an ethical footing for the Benefits Received Theory in the form of voluntary revelation, by taxpayers, of their demand schedules for State services. He defended the Benefits Receive Theory on the ground that it allowed taxpayers to opt out of a State service. His basic tenet was that a tax system should be based upon voluntary and unanimous action of the taxpayers. However, this suggestion suffers from some inherent drawbacks.

- (i) Self-contradictory: If division of tax burden is to be based only upon voluntary disclosures by the taxpayers, its role to bring about equitable distribution of income and wealth is ruled out. Wicksell admits that an equitable income distribution is a precondition for his theory to be applicable.
- (ii) Revealing demand schedules: As of now, there is no effective and reliable mechanism whereby the taxpayers can be forced to reveal their true demand schedules for each State service. Various voting models propounded by thinkers end up as theoretical exercises only.

## Lindahl's Solution

A formal and rigorous formulation of the benefits received approach was provided within a framework of voluntary exchange theory of public finance by Erik Lindahl of Sweden in 1919. He assumes that the society has only two consumers of State services, say A and B. They are to jointly bear their entire supply cost incurred by the State such that if A pays more for it, B has to pay less and vice versa. He further assumes that both consumers reveal their true demand schedules for the said State services The State services are subject to the law of diminishing marginal utility for both consumers, thereby generating downward sloping demand curves for them. Accordingly, their vertical addition represents the demand curve of the society as a whole. Thus, an intersection of the demand and supply curves of the State services would simultaneously determine (a) the demand and supply curves of the State services would simultaneously determine (a) the algorithm of their supply cost between them, that is, their respective 'tax burden'.

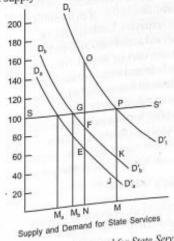


Fig. 3.2 Supply and Demand for State Services

Lindahl's theory has been explained by Howard R. Bowen with the help of a simple diagram (see Fig. 3.2). Let SS' be the supply schedule of the State services in the sense that this is the per-unit cost of their alternative amounts. Let there be two members of the society, A and B. A has a given demand schedule for the public services. Keeping in mind the fact that whatever be the supply of State services, they would be consumed jointly by both A and B. Mr A agrees to contribute different proportions of the cost of supplying those services to the community. Larger the proposed supply of the State services, smaller is the part of the per-unit cost which he is ready to bear. Of course whether his absolute contribution would increase or fall depends upon his elasticity for demand for the State services. Thus, for a supply of less than OM units of State services, Mr A is ready to bear more than their full cost. For supplies larger than OM, his desired contribution per unit is smaller. For example, he is ready to contribute only NE per unit (out of the total cost of NG per unit) of the State services when their supply is equal to ON. In the same manner, the demand schedule of the individual Mr B is found out. Now since, for example, for a supply of ON of State services to be jointly consume by both A and B, Mr A is ready to contribute NE and Mr B is ready to contribute NF therefore, the State can collect a tax revenue of NQ per unit of State services. The poll Q, therefore lies on the combined demand schedule for State services. In this way, vertical addition of the two demand curves, we can get the community's demand schedule for the State services, namely DD,'. Now note that at ON, the cost of supply is only per unit. Since the State is not interested in making a profit out of the supply of services it respects the desire of the taxpayer and increases the supply of State services. But for increased supplies, each taxpayer is ready to contribute a smaller proportion of the contribute a smaller proportion of the contribute as a smaller proporti Eventually, we find that for a supply of OM of State services, the combined contribution by the taxpayers (MJ + MK = MP) equals their cost of supply. This is the position where the combined demand curve DD, intersects the supply curve SS. Thus, equilibrium, a voluntary exchanges basis, is achieved at this position where the State supplies service equal to, OM at a per unit cost of MP out of which Mr A contributes MJ per unit and B contributes MK per unit.

No basic difference to the argument is made if the State services are subject the law of increasing or diminishing costs resulting in a non-horizontal supply curve. only change will be in the proportion of taxes contributed by taxpayers.

Thus, Lindahl's theory (as explained through Bowen's diagram) tries to pro an answer to two questions, namely, the optimal level of State activities and allocation tax burden between the taxpayers. Lindahl's reasoning can be extended to cases more than two individuals and a combination of several State services. For this, howe complex mathematical techniques are needed. For a general discussion, this techniques extremely cumbersome. In formal terms extremely cumbersome. In formal terms, we need the relevant sets of cost functions state services, and the demand functions of state services, and the demand functions of each taxpayer for each state service. constraints covering the interdependence of these functions have also to be specification of each individual formations. along with specification of each individual function. Further, each of these functions to be a stable one. Obviously, all these presents in the specific of the second with th to be a stable one. Obviously, all these prerequisites cannot be easily satisfied with makes Lindahl's (and for that matter any such makes Lindahl's (and for that matter any such complicated theory) difficult to especially because there are bound to be information gaps in our specifications.

## Limitations of Lindahl's Solution

Lindahl's solution suffers from all the problems which mathematical models suffer for particularly the non-availability of stable and useable data.

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Firstly, it starts with a case of two individuals in which each individual bases his demand schedule for the state services on the assumption that the contribution of the other individual to the cost of supplying state services is given. Such a state of affairs creates a situation analogous to the determination of price under duopoly and is not likely to yield a stable solution without highly rigorous assumptions, and that too would depend upon the position which is assumed to exist at the beginning and our assumptions regarding the bargaining strength of A and B.

Secondly, even if all the functions are specified and stable, the actual solution becomes so cumbersome that it is of very limited practical value.

Thirdly, it is totally unrealistic to assume that we can ever know the true preferences of individual taxpayers. By definition, public goods, to which the principle of exclusion does not apply, are expected to be in the public sector. Since no individual can be denied the use of such public goods, each taxpayer would have an inherent tendency to understate his preferences for them. This means that in the case of public goods, every individual has an incentive to be a free rider. Brown and Jackson add that in a small society, the contribution by each individual to the total cost of supplying a public good would be significant, so that if he tries to be a free rider, the supply of the public good would be significantly reduced. It implies that there is a disincentive for concealing one's true preference in a small society. In a large society, however, the incentive for concealing one's true preference and an effort to be a free rider assumes greater possibility. In the case of private goods, on the other hand, the incentive for distorting the preferences is greater in a smaller society. Brown and Jackson think, however, that even in the case of a small group, voluntary agreements are not likely to produce a Pareto efficient supply of public goods. This would be caused by the fact that even in a small group, each individual would reveal his preference (so as to get a share of the public good) and misrepresent his preference (so as to minimize his share of its cost). Ordinarily, therefore, neither a set of decentralized markets, nor a central planning system, nor a set of voluntary agreements is likely to produce a Pareto efficient supply of public goods unless the taxpayers reveal their true preferences.

Fourthly, in actual practice, individual taxpayers hardly get a chance to express their preferences. Their preferences are expressed on their behalf by the legislatures or the executive authority and such a system is bound to be an imperfect one.

Fifthly, Lindahl's theory makes an unrealistic assumption that the distribution of pre-tax income is optimal. The non validity of this assumption indicate the fact that the demand schedules of individual taxpayers cannot be expected to represent true needs and preferences of the society.

Sixthly, Lindahl's theory is based on the assumption that the State activities are financed only through taxation and not through public borrowings and use of the printing press etc.

Seventhly, there are also problems connected with the derivation of demand curve for a public good. The usual technique should be that of indifference curves and their points of tangency with given budget price lines. The price ratio would reflect given sets of prices of both public and private goods. However, apart from the problems connected with the determination of indifference curves themselves, there is the difficulty of deciding with the determination of indifference curves themselves, there is the difficulty of deciding as to whether it is real or money income which would be held constant. Opinions differ in this regard. Bowen wants to hold real income constant, while Musgrave chooses in this regard. Bowen wants to hold real income constant, while Musgrave which is the money income. Buchanan uses the technique of marginal valuation curve which is the locus of tangency of indifference curves with budget price lines on the assumption that

the price ratio between public and private goods remains unchanged. Obviously, a change in price ratio would generate a new marginal valuation curve.

NOTES

Eighthly, Lindahl's solution ignores the fact that the very existence of State means a resource cost for the society. This cost has its own floor level below which it cannot be pushed. And this floor level itself is determined by several exogenous and endogenous variables. One such variable is the minimum size of the State machinery, its cost and its efficiency. Another such variable is the internal and external political situation faced by it. Thus an unpredictable and, to an extent, an indeterminable cost of the State and its primary functions has to be recovered from the members of the society with no reference to their demand for State services. In addition, a resource cost has also to be incurred of extracting the preference pattern of each member of the society.

And lastly, we must note that the pricing of public and private goods are not independent of their supplies. Demand curves for public goods are derived on the assumption that these prices remain unaffected by scale of their production. In other words, the solution of the problem has to be a simultaneous one with the recognition that all these variables are interdependent.

Lindhal's theory, which is a refinement of Wicksell's theory, is primarily aimed all telling us the way a society should choose an optimum level of output of public goods and the way the burden of their provision should be shared between members of the society. In practice, as seen above, there are various limitations of this theory. Moreover, in itself Lindahl's theory is couched in partial equilibrium terms. Various attempts have been made by later economists to extend it to the field of general equilibrium, but they are all based upon some stringent assumptions. Since the main emphasis of Lindahl's theory is to provide rules for determining an equitable distribution of tax burden, it implies the justice is realized if the equilibrium is Pareto optimal. This equilibrium is such that puindividual could be made better off without someone else being made worse off. And this, in turn, implies complete unanimity. Doubts can be expressed regarding adjustment process also by which this final equilibrium is reached.

## Limitations of the Benefits Received Approach

The shortcomings of the Benefits Received Theory are the following:

- 1. The main difficulty in this approach is that basically the contributions by members of the society to the State treasury for the provision of State services are not strictly taxes. They are in the nature of prices which the members of the society decisions regarding the supply of public services rendered to them. Even when the by the members of the society are taken not on individual basis, but on the basis of prices only partially acquire the character of taxation (i.e., compulsory payment) without any necessary quid pro quo).
- 2. It is impossible to quantify the benefits derived by individual members of the society. Benefit is ultimately a subjective thing and cannot be estimated directly. And quite often diametrically opposite results may be subject to discussion difference in the interpretation of the benefits. Thus, some authors take income as the representative of the benefits received. In itself, this is a questionable individual to would be wrong to maintain that the benefit of State services derived by the

individuals would be equal with one of them getting a State pension of ₹100 per month and the other earning that very amount by own labour.

- 3. It is assumed that the benefits derived by consumers of State services are independent of each other. It means that the benefit that any individual enjoys depends only upon his own consumption of State services and that it makes no difference to him as to who else is consuming them and how much. This is a factually incorrect statement. We all know, for example, that the satisfaction that one derives from his income depends not only upon his own absolute income, but also equally upon the income of others. Moreover, there is no way of knowing the nature and extent of this interdependence on a priori basis. A rich person may feel better on account of the fact that his income is far bigger than those of the others. Or he may feel depressed because there is poverty around him. It is highly unlikely that he would be totally indifferent to the income received by others. In the same manner, the benefits derived from State expenditure do not depend only upon their absolute amount consumed by a given individual, but also upon how he views the consumption-shares of others.
- 4. This principle falls foul of all welfare activities of the State which bring in any distributive change. 'For example, the benefit derived by an old-age pensioner from his pension is definite enough, and the benefit of service principle would require him to return it to the public treasury in the form of a special tax.' Though, quite erroneously, this principle assumes that the distribution of income is already proper, still such a proper distribution might be the result of the State activities themselves. If the State taxes according to the benefits received, the net result might be an improper income distribution. Therefore, the assumption that income distribution is already proper is obviously erroneous. An important objective of most fiscal policies is to bring about a shift towards what is considered an equitable income distribution. The benefit principle militates against this possible objective. The relationship of the State with its citizens is reduced to a semi commercial level only.
- 5. It is equally questionable to assume that the income received by a member of the society is directly connected only with the benefits received from the State. The exact relationship between the income of an individual and the valuation of the benefits received from the State services is not always clear and quantifiable. Looked at from one angle, it may be said that income is subject to the law of diminishing marginal utility and as a result the richer people derive proportionately lesser benefit from the State activities. It may also be asserted that the poor are in greater need of the State protection so as to be saved from exploitation by the rich. That is why the State has to enact all kinds of labour legislation and enforce the same. The other view here could be that the richer sections can enjoy their wealth and income only because of the State protection of their rights. If the State derecognizes their rights, they will lose this privilege. Therefore, the richer sections need and get a larger measure of State protection. Also, in practice, we know that enactment of various laws and traditions enable the richer classes to have much wider and profitable opportunities of acquiring additional income. The opportunities to the poor are always inadequate.
- 6. It must be remembered that a society is not just the summation of its individual members. As German writers have the tradition of insisting upon, a society is an organic entity, having a soul of its own in addition to being the sum total of its

members. Accordingly, there are many benefits and costs which cannot be ascribed to any particular individual or a group of individuals. The existence of the society and the nature of some goods is such that there are externalities of those goods Mention has already been made of such externalities while discussing public goods. The problem, therefore, remains that of assigning the net benefits and the tax burden. There are certain State activities, such as those helping the economy in its economic growth, which cannot be quantified at all much less ascribed to any particular sections of the society.

- 7. In a number of cases people suffer from a lack of complete knowledge. A particular State service may be of great help to the society and even to the individual taxpayers but it may not be widely known. In India, for example, quite a few villagers may not be able to appreciate the benefits of polio vaccination and similar other health measures. It will be misleading on our part to assume that these villagers would be voluntarily opting for the provision of these health measures and would also offer to pay for the same.
- 8. A modern economy is generally faced with the problems of economic growth (in the case of underdeveloped economies) and/or of stabilization (especially in the case of developed economies). Benefits approach is not able to guide the government in this sphere because the benefits accruing to the economy as if whole cannot be apportioned amongst individual members of the society.
- 9. The Benefits Received Theory does not become more acceptable even if W take up a more rigorous and formal statement of Erik Lindahl. Lindahl's approach necessitates that each taxpayer should reveal his true preferences. Firstly, it may not happen especially when each taxpayer finds that it may be possible to achieve a better position by showing a lesser demand for State services (or public goods Ultimately, it becomes a question of the strategy and bargaining power and p single equilibrium solution becomes available. Secondly, the problem becomes 3 the more complicated when the number of taxpayers is more than two, as always the case. With a large number of taxpayers, any individual taxpayer wi find that his non contribution to the public revenue does not adversely affect the State expenditure or the supply of public goods proper. Accordingly, each taxpay has the tendency to evade tax and conceal his true preferences. And unless true preferences of the members of society are known, decisions regarding the natural and extent of public services cannot be taken; nor can the allocation of the cost services be made. Thirdly, in some cases, the whole approach can lead to a ven absurd result. For example, realizing that his contribution as a taxpayer would to effect the defence effort of the country, each taxpayer might refuse to contribute for it. Should it mean that the true preference of the society is not to be protected against foreign aggressions? Observed against foreign aggressions? Obviously, we have been led to a wrong conclusion by the concealment of true preferences by the society.
- 10. Wicksell and Colm emphasize the basic fact that the determination of the State budget is through a political process and not through the market mechanism elegislature or through a bureaucracy or some such other method, but it is certain not a market process in which demand and supply forces determine the extent each service and its price to be charged from the individual consumer furthermore, Colm also points out that apart from the fact that the State budget determined through a political process, an individual also changes his outlook

while taking decisions about the taxes. In the latter case, he does not go by his own individual interest only. He also has in mind the political factors including what type of society he wants to have around him and the way in which tax contributions can help in its building.

11. A general objection to this theory is its non recognition of the objective of equity in taxation. Though it is occasionally mentioned, it is not generally accepted as a part of this theory.

- 12. Similarly, in this theory, the relationship between the government and the public is reduced to the one of a semi-commercial nature. Several basic functions of a good government like helping the needy, protecting the helpless and so on are ruled out in this theory.
- 13. This approach does not tell us what to do if tax collections based on Benefits Received Method do not match the government expenditure needs. Should the government then resort to budgetary savings or market borrowings? Also no interconnection between tax collections and other sources of government revenue like gifts, profits from currency and so forth, is brought to the forefront.
- 14. Different economic units are interdependent in an economy through their mutual economic transactions. As a result, the benefits or losses of government activities seldom remain confined to their first points of impact. Almost invariably, there are additional rounds of benefits or losses to the economy. This approach does not advocate taxing the secondary, tertiary and later beneficiaries.
- 15. The benefits received principle of taxation is based upon the assumption that market mechanism fails to supply goods and services which have a quality of publicness in them. It assumes that these goods and services are so important that arrangements should be made for their supply. This, in turn, implies that the State should undertake the supply of these goods and services and charge for them from their beneficiaries. Samuelson has been a strong supporter of the view that only public sector can supply those goods which are non rivalrous in production. The latter characteristic implies that its consumption by one does not deprive others from its use. However, this characteristic also leads to the inference that its marginal cost is zero and, therefore, it is not possible to establish a correspondence between its cost to the supplier and the benefit to its users. This weakens the very theoretical basis of financing the supply of a public good on benefit principle. Moreover, various theoreticians have emphasized the difficulties associated with identifying goods and services that not only contain the characteristics of publicness, but also retain them. The Paretian type theorizing of welfare maximization couched in static terms becomes debatable in this case, since the characteristics of publicness in many goods tend to vary with the techniques of production and areas of consumption.

## 3.5.1 Ability to Pay

This theory has enjoyed widespread popularity right from sixteenth century till date, Particularly it sub-serves the ends of a modern welfare State. The well-known advocates of this theory include Rousseau, J. B. Say, Adam Smith, J. S. Mill, among others. It has been used as a theoretical underpinning for several policy prescriptions like progressive taxas: taxation, reduction in income and wealth inequalities, and removal of regional disparities.

This theory views tax liability in its true form—compulsory payment to the State without any quid pro quo. It does not assume any commercial or semi commercial relationship between the State and the citizens. According to this approach, a citizen is we pay taxes just because he can, and his relative share in the total tax burden is to be determined by his relative paying capacity. This doctrine has been in vogue for at less as long as the Benefits Received Approach. A good account of its history is found in Seligman. This theory was bound to be supported by socialist thinkers because of its conformity with the ideas and concepts of justice and equity. However, the doctring received an equally strong support from non socialist thinkers as well and became a part of the theory of welfare economics.

The basic tenet of the ability to pay doctrine is that the distribution of the burden between members of society should be on the criteria of justice and equit which, in turn, implies that the tax burden should be apportioned according their relative ability to pay. In this connection, the following points are particular noteworthy.

- The doctrine of ability to pay is also combined, in certain cases, with the objective
  of maximum welfare of the society. This happens when the index of paying ability
  is compiled on the basis of equi marginal sacrifice. In that case, the society
  undergoes least aggregate sacrifice in meeting a given tax liability.
- The ability to pay of the society as a whole is not an absolute but a variable quantity and depends upon a number of variables including the expenditure side of the government budget.
- Analysts have identified several indices for quantifying relative ability to pay
  the taxpayers such as, income, property and wealth and consumption expendition.
- It is sometimes thought that income as the index of ability coupled with objective of equity and welfare necessarily implies progressive taxation. This is not surfrom this line of reasoning. As mentioned above, ability-to-pay is not an invariage quantity, and amongst other things, depends upon the expenditure side of surface measures to help, guide and protect the economy and society. Basically, therefore of the rest of the budget. However, for the sake of simplicity of analysis, all the factors are considered exogenous and given.
- While the fact of repercussive effects of a fiscal policy is recognized, it is usuall ignored for keeping the arguments at a simple level
- While cost of service approach to the distribution of tax burden implies that the government should try to have a balanced budget, the ability to pay approach does not have any such direct implication. The claim of non-essentiality of balanced budget is further strengthened if we bring in the expenditure side of the advantage that its analysis more realistic. Actually, ability to pay approach bus a unified picture of the overall fiscal policy of the government. It can admit the also follows that the government expenditure and the paying ability of taxpayor necessarily having a surplus or a deficit budget. Similarly, the authorities need the management policy becomes a part and parcel of their fiscal policy.

· There can be a difference of opinion as to what constitutes the ability to pay of the citizens. The index of ability compiled by us may be an objective or a subjective one. An objective index may be based upon income, expenditure, wealth and property of the taxpayers, or a weighted combination of some of them. Similarly, a subjective index may be compiled on the basis of those variables which are identified as relevant for equity and welfare. Either way, an ability-to-pay index is supposed to enable the authorities to distribute the tax burden between members of society in conformity with their comparative ability to bear it. Its expected spillover effect is minimization of aggregate sacrifice by taxpayers.

## (A) Objective Indices of Ability to Pay

## 1. Property as an Index of Ability to Pay

There are several limitations and conceptual difficulties in adopting this objective index. By itself, it is an incomplete index and may be used only to supplement other indices. It has a meaning only in an economy which has the institutions of private property and inheritance and in which, therefore, decisions of saving and investment are primarily in the hands of private individuals, families and the corporate sector. These institutions provide a great incentive for the will to work, save and invest. If property is chosen as an index of ability to pay, these activities are liable to suffer with adverse effects upon capital accumulation in the economy and its growth rate.

Furthermore, if tax rates are quite high, they would eat into the property, and the set back to saving and investment activity will be all the more severe. It must also be remembered that in an underdeveloped country, where the volume of such taxable property is likely to be small, and where inequalities of wealth are great, this revenue resource is very likely to be both inflexible and inadequate.

Property by itself is bound to be an incomplete index in many cases. Some properties yield more income than the others, and some do not yield any income at all. Therefore, considering the ownership of property to the exclusion of other possible indices of ability to pay is bound to be misleading.

However, just as property should not be chosen as the sole index of ability to pay, it should not be left out of any index either. This is so even when some properties do not yield any income, since their very existence adds to the owner's ability to pay. Also from the point of view of welfare, concentration of economic power should be prevented because it generates opportunities of economic exploitation and leads to unequal economic opportunities for the citizens. Property owners are also known to be able to manipulate the working of the economy to their advantage. It is for this reason that taxing of gifts and inheritances should find an important place in any egalitarian tax

In conclusion, we may say, that it will be erroneous to rely upon property as system. the sole index and source of taxation, but it is equally erroneous to leave it out. Any good tax system will take into account the property ownership and the powers which it confers upon the owners and would consider it as an important source of public revenue.

## 2. Consumption Expenditure as an Index of Ability

Choice of this index assumes that people with higher consumption expenditure derive Smaller marginal utility from it. Therefore, they can pay more tax and suffer a greater

reduction in their consumption expenditure without losing more utility than those who are spending less. By implication, it is also assumed that levels of income and expenditure of taxpayers rise and fall together and, therefore, taxpayers with higher expenditure art those who have higher incomes. Furthermore, expenditure drains resources of the society and, for that reason, ought to be taxed. But in spite of these arguments, it is not3 satisfactory index of the ability to pay. For various reasons, it is a very difficult index to compile and still more difficult to administer because of problems in estimating consumption expenditure during a given period of time. Use of some indirect taxes like excise duties and sales taxes as proxies of tax on consumption expenditure implies that taxpayers can be classified into ability categories according to the goods and services they consume. But this is frequently not so. Moreover, several indirect taxes can be quite regressive in their nature.

Some critics claim that it is questionable to tax only that part of income which consumed, and leave out that portion which is saved and invested. This system enables higher income people to plough back their earnings into investment and increase the concentration of economic power in their hands without attracting tax liability. We may therefore, conclude that a tax on consumption may be a part of the overall tax system but not as its sole component.

## 3. Income as the Index of Ability to pay

Income is one of the most accepted indices of the ability to pay, though it is usually supplemented by other tax indices also. Even Adam Smith, while asserting the ability criterion in his first canon of taxation, maintained that such ability is in proportion respective incomes of the taxpayers. However, as we shall see, income itself, from point of view of ability to pay, is subject to several interpretations. Accordingly, vario conceptual points have to be clarified before this index can be recommended and course, as in any other index, there are also several practical difficulties in its administration

According to this approach, a citizen receiving a larger income is made to food larger tax bill and vice versa. As a matter of detail, income may be divided into two parts (i) carned income, and (ii) unearned income. The latter includes capital gains and forth, and may be subjected to heavier taxation. Also, it is net and not gross income which should be considered for this purpose. This is because normally, expenses (bol) monetary and non-monetary) have to be incurred to earn an income. Similarly conceptually speaking, leisure is also a part of one's real income. Accordingly, a person net income should mean his gross income plus leisure minus expenses incurred to

### Limitations

However, net income, even when measured in this rigorous way, is not an ideal index tax paying ability. It also suffers from a purplement tax paying ability. It also suffers from a number of limitations.

- 1. The ability to pay of a taxpayer is as much dependent upon his needs as income. Persons having same income has the same income. income. Persons having same income but different needs do not have the sale
- Ability to pay depends upon marginal utility of money which is a tricky measured to quick variation on source. It is subject to quick variation on several grounds and cannot be quantified becapt

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- 3. The income as an index of ability to pay appears far less relevant in the case of corporate incomes. An individual or family might own a number of small enterprises and thereby acquire a large amount of income. Alternatively, a large business may be owned by a number of individuals or families, each getting a small amount of income. By implication, corporate sector may be subjected to a uniform rate of
- In the same manner, it is difficult to use this index in indirect taxes. Since indirect taxes are collected as taxes on commodities and services, it is implicitly assumed that the consumers can be classified into homogeneous groups of equal ability to pay according to the types and quantities of goods and services purchased by them. This is obviously a highly unrealistic assumption.
- 5. A comprehensive indirect tax on both goods and services makes it still more difficult to structure it in conformity with the principle of ability to pay. GST accommodates very few exemptions and identified 'sin goods' which are subjected to a penal tax rate. If exemptions and 'sin goods' are ignored, GST boils down to a proportionate tax on consumption expenditure.
- 6. In underdeveloped countries, it may be partially correct to assume that luxuries are purchased mainly by the richer sections only. But even there it is not necessarily so. Where there is no electricity, even very rich residents are not likely to have refrigerators or air conditioners etc. In advanced countries, the difficulty arises from the fact that consumption pattern is much less indicative of the relative paying capacity of the citizens.

However, in spite of all these limitations, income as an index of ability is more appealing than other indices. It still satisfies our a priori expectations to a great extent.

In practice, however, it is helpful if we adjust and determine the tax liability at multiple levels based upon income, consumption, wealth and property, gifts and inheritances, capital gains and unearned increments and so forth. Also, it is still helpful if the system of taxation includes both direct and indirect varieties.

## (B) Subjective Indices of Ability to Pay

### 1. Assumptions

Subjective approach to the ability to pay proceeds on the assumptions that a taxpayer undergoes a hardship or suffers a sacrifice by paying the tax. It is assumed that he does not feel better by the idea that he is contributing to the welfare of the society through helping the State in its multifarious activities. Also, it is assumed that the sacrifice of a taxpayer depends upon his own tax liability and is not affected by the tax paid by others.

## 2. Equity versus Welfare

The question of determining tax liability of individual taxpayers may be considered in the Context of equity and/or welfare. The goal of equity dictates that sacrifice undergone by taxpayers is equally apportioned between them. In contrast, 'welfare' approach aims at minimizing (to the extent possible) the aggregate sacrifice of all the taxpayers put together. The concept of equal sacrifice admits of different interpretations and one such interpretation tallies with the welfare objective also.

#### 3. Equal Sacrifice

The term same or equal sacrifice may be interpreted in three alternative ways, namely:

- · equal absolute sacrifice,
- · equal proportional sacrifice, and
- · equal marginal sacrifice.

Dalton adds a fourth possible interpretation, namely, constant inequality of incomes. It means that the inequalities of incomes as between different taxpayers should remain the same after the tax as they were before the tax.

Out of these four alternative meanings of equal sacrifice, the one termed Equal Marginal Sacrifice also leads to the Least Aggregate Sacrifice which is the goal of Welfare approach.

## Correct Meaning of Equity

As Dalton says, 'Prima facie, it is not clear, on grounds of equity, which of these four is to be preferred.' While applying any of these principles, or interpretations, we have to know the utility function of income of each taxpayer. That is to say, we must know the way in which marginal utility of income varies as income of a taxpayer changes. This is a highly tricky area. Moreover, any precise conclusions regarding the division of tax burden between taxpayers in accordance with their respective ability to pay can be derived only if on the basis of two assumptions, namely:

- · utility can be measured in cardinal terms, and
- it is possible to have an interpersonal comparison of utility.

Factually, both these assumptions are highly unrealistic. But some way has to be found out of the difficulty posed by these assumptions. Accordingly, we make a common sense and plausible assumption of similarity of income-utility schedules. This assumption has been made even by those authors who do not accept its scientific validity. For in our normal needs and moods, at given levels of income, are more alike each other in our normal needs and moods, and our reactions to variations in our income, than some says, 'I do not believe and I have never believed that in fact men are necessarily equal calculations which do not treat them as if they were equal are merely revolting.'

Similarly, Lerner asserts that even if currently different individuals have different equality, but slowly, so that over time the lower income people may also acquire a capacity to enjoy large incomes.

However, while agreeing that it is not possible to have objective measures of utility, we may offer the following observations.

(i) Equal Absolute Sacrifice: This means that each taxpayer is made to sacrifice the same amount of utility so that the difference between the aggregate utility taxpayer. Symbolically, U(Y) – U(-T) should be the same for even denotes total utility, Y denotes income before tax, and (Y-T) denotes income before tax. If this doctrine is applied, each member of the society will pay at least some tax. No one will enjoy complete tax exemption.

However, it still remains to be determined whether tax rates should be regressive, proportional or progressive. The answer depends upon the behaviour of marginal utility of income schedules. If we assume that marginal utility curve of each member of the society is (i) located at the same distance from X-axis, and (ii) it is parallel to X-axis, (the marginal utility of income is constant for all incomes), then it follows that each taxpayer should pay the same absolute amount of tax. This will mean a lower rate of tax as income increases, that is, regressive rates. On the other hand, if the income utility schedules fall, that is, if marginal utility of income falls as income rises, then with rising income, tax amount will have to increase to represent the same amount of sacrifice. When the rate of fall in marginal utility of income equals the rate of rise in income, proportional taxation will result in equal absolute sacrifice. On the other hand, if the marginal utility of income falls at a rate faster than the increase in income, then the equal absolute sacrifice will require progressive tax rates. It should be noted, however, that unless the slope of the marginal utility curve is known precisely ever the relevant range, the above conclusions cannot be drawn.

(ii) Equal Proportional Sacrifice: According to this principle also, no one is exempt from sharing the tax burden. Each taxpayer is supposed to sacrifice the same percentage of the total satisfaction which he would have derived from his income. Symbolically, it would mean that the tax liability of each individual is determined in a manner that for his income Y, [U(Y) U(Y-T)]/U(Y) is a constant. However, while in the case of equal absolute sacrifice, we were able to lay down the rules of progressive, proportional or regressive tax rates (with reference to the rate at which marginal utility falls with an increase in income), such an easy generalization is not possible in this case. Here the relative rate of change in marginal and average utility of income will have to be looked into. If the marginal utility of income remains unchanged, then equal proportional sacrifice would call for a proportional taxation. On the other hand, if the marginal utility of income falls, then we shall have to look at the relative percentage shifts in the marginal and average utilities. If the decline in marginal utility is of the same rate as the decline in the average utility then proportional tax will satisfy this objective. If the fall in the marginal utility is at a rate faster than the fall in the average utility, progressive taxation will be called for. If the fall in the marginal utility is at a rate slower than the fall in average utility, then regressive taxation will be needed to satisfy this

The above analysis can be presented graphically also. In Figure. 3.3, income is measured along horizontal axis and marginal utility of income along vertical axis. If marginal utility falls at the same rate as the rate of rise in income, then the marginal utility curve would be drawn such that for each point the rectangle formed by the abscissa, the ordinate and the two axes bears the same proportion formed by the area under the curve to the left of this point. The equation of this curve is to the area under the curve to the left of this point. The equation of this curve is given by  $U(Y_1)$   $U(Y_2) = Y_2/Y_1$  where  $U(Y_1)$  and  $U(Y_2)$  are the marginal utilities given by  $U(Y_1)$   $U(Y_2) = Y_2/Y_1$  where  $U(Y_1)$  and forming an angle of 45° with each intersecting the line of proportions at P and forming an angle of 45° with each intersecting the line of proportions APB pass through point P. Then the line of axis. Also, let a rectangular hyperbola APB pass through point P. Then the line of proportions CPD would lie below the rectangular hyperbola to the left of P and above it to the right of P. Now for equal proportional sacrifice, we have the following conclusions. If the marginal utility curve coincides with CPD, the income following conclusions. If the marginal utility curve coincides with CPD, the income

tax rates should be proportional; if it falls more rapidly than CPD, then the rates should be progressive. And they should be regressive if the marginal utility curve descends less rapidly than CPD. Thus, we find that in the case of equal proportional sacrifice, the tax rates do not have to be progressive simply because income is subject to falling marginal utility. It should be noted, however, that the above conclusions are based on the assumption that the behaviour of the marginal utility of income (that is, the slope of the marginal utility curve) is known over the entire range of income.

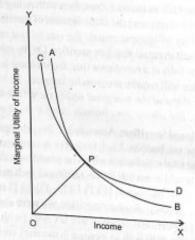


Fig. 3.3 Marginal Utility of Income

(iii) Equal Marginal Sacrifice or the Least Aggregate Sacrifice: According this interpretation of equity, the tax burden should be apportioned in such a way that the marginal utility of income left after tax with any taxpayer is the same Symbolically, for each taxpayer,  $U^{s}(Y-T)$  should be the same. In this princip the emphasis is equally on the welfare of the community. It follows from utilitarian dictum of 'the greatest happiness of the greatest number'. This philosophil asserts, amongst other things, that the aggregate sacrifice imposed on community by the taxation should be the least possible. Musgrave, Pigou others consider it the 'ultimate principle of taxation'. However, though this doctrib sets the objective of least aggregate sacrifice by the taxpayers, 'there is no general accepted view as to what it involves in terms of individual sacrifice.' In this case if we assume that the marginal utility schedules are identical and slopping downwards, it follows that the taxation would begin with the highest income once that income is lopped of to the next highest income, both incomes starting the taxation equally and sharing the taxation equally and so on. In the end, all taxed incomes are left equally and so on. while all non-taxed incomes are smaller than the taxed ones. It has been sugge that this principle would be realized by taxing only the largest incomes, cutting down all above a certain level to that the same single to the largest incomes, cutting only the largest incomes, cutting only the largest incomes. down all above a certain level to that level, while exempting all below that level. Thus, all incomes above, say ₹2.50,000 Thus, all incomes above, say, ₹2,50,000 a year would be reduced by taxation that level, and no one, whose incomes

that level, and no one, whose income was less than this, would be taxed at all taxation, a conclusion which is sometimes erroneously supposed to be applicable to the cases as well.

It is well-known that utility cannot be measured and interpersonal comparisons of utility are not possible. On this basis, some writers insist that the above conclusions are not scientifically based. In the absence of any relevant information, it is not possible to prove that the best way of apportioning tax burden would be to enforce equal after-tax incomes. However, Lerner shows that even when the marginal utility schedule are not precisely known, and even when interpersonal comparisons of utility are not possible, still we can conclude that a shift towards equality in income distribution would increase the aggregate satisfaction of the community. Lerner bases his argument on the assumption that in the absence of definite information, the probability of a loss in aggregate satisfaction may be taken as high as that of a gain in aggregate satisfaction when income is redistributed. However, in his analytical framework, if we move from equality towards inequality, the amount of a probable loss is more than the probable gain (and therefore, the amount of probable gain exceeds the amount of probable loss if we move from inequality towards equality). As a result, the society increases its probable aggregate satisfaction when incomes are distributed equally. Lerner's conclusion, however, rests on probability argument only and cannot be taken to be objectively conclusive.

Pigou says that the right goal of every government is the maximum welfare of the community as a whole. And 'in the special field of taxation, this general principle is identical with the principle of least sacrifice.'

It is noteworthy that it is not possible to directly apply this principle in the field of business taxation because in the final analysis, incidence of business taxation is shifted to the business owners and/or consumers. Also, it is extremely difficult to structure indirect taxation in accordance with the ability to pay principle because an individual's ability to pay tax has hardly any direct relationship with his consumption pattern.

### EFFECT OF TAXATION ON PRODUCTION 3.6

In line with Dalton, the effect of taxation on production and growth may be analysed with reference to the following:

- (i) capacity to work, save and invest; and
- (ii) the will to work, save and invest.

An alternative way of analysing these effects would be to split them up into

- (i) shift in the allocation of existing productive resources, and
- (ii) a change in the supply of these productive resources and use them as manifestations of the capacity (and will ) to work, save and invest.

It is noteworthy that different segments of these effects are highly interdependent and it is only for analytical simplicity and comprehension that they are considered singly or in groups. In the following paragraphs, the problem is split up into its component parts with their detailed analysis. However, it should be noted that in most cases, it is not Possible to assess the effects in quantitative terms and, therefore, our observations would be confined to generalities. In some cases, we shall also try to find out as to which tax has more of a specific effect and which one has less.

#### **Check Your Progress**

- 7. Mention the two categories of services supplied by the State.
- 8. Name the advocates of the Ability to Pay Theory.
- 9. State the main theme of the Benefits Received Theory.

#### Allocative Effects of Taxes

#### NOTES

We start with the conditions under which existing resource allocation may be termed an optimum one. This is followed by an analysis of the way in which a given tax is likely to shift the existing resource allocation which in turn should help us in drawing certain inferences.

It was a tradition with the economists to assume that a competitive market economy working with sufficient factor mobility would result in an optimum allocation of its productive resources. Optimum allocation is defined as the one in which the relevant marginal conditions are satisfied. It means, for example, that in the field of production the ratio of marginal productivity of a factor to its market price is equal to the corresponding ratio of every other factor. Similarly, marginal rate of substitution between any pair of goods is equal to the marginal rate of technical substitution between them. In the same way, there is no divergence between social and private marginal costs and between social and private marginal benefits of the employment of any factor. However, optimality of resource allocation depends upon two pre conditions, namely,

- (i) appropriate income distribution, and
- (ii) competitive market with unhindered working of market mechanism.

A market economy gives rise to a specific demand pattern for different good and services in harmony with the pattern of its income and wealth distribution. The demand pattern, through its impact on profitability of various economic activities would guide the market to a given production and resource allocation set up. If, therefore, have a reason to believe that the existing income and wealth distribution in the society not an optimum one (and we know that a market economy generates and widens inequalities), we will not be able to accept the existing resource allocation as an optimized one. Similarly, if the market is riddled with various imperfections like those of imperfect factor mobility and monopoly elements, resource allocation would remain sub optimal

## Marshallian Reasoning

Marshall recognized the possibility of a sub optimal inter-industrial allocation of resource He approached the problem by comparing the effect of a tax on consumer's surp with the amount of tax collection. If the loss to the consumer's surplus was less than tax collected by the authorities, then the shift of investment out of the taxed industry considered beneficial to the society and, therefore, a step towards optimum resource allocation. On this basis, Marshall concluded that the output of an industry operating under diminishing returns should be taxed, while the output of an industry operating under increasing returns should be subsidized. A constant returns industry was to be neither taxed nor subsidized. Further it was 500 hard and a subsidized for the s neither taxed nor subsidized. Further, it was found that in certain cases, ad valorem and specific taxes would have different of factors and the certain cases, ad valorem and the certain cases. specific taxes would have different effects on the production of a good. The effect two taxes would be the same in the case of two taxes would be the same in the case of a constant returns industry (which has perfectly elastic supply curve) provided the yield from the two taxes is the same. In the case, the supply curve inclusive of tax would are case, the supply curve inclusive of tax would run parallel to the supply curve without tax.

In the case of a supply curve rising upwards to the supply curve without tax. In the case of a supply curve rising upwards to the right, the vertical distance between the supply curve inclusive of tax and the original the supply curve inclusive of tax and the original supply curve would keep on widening as supply increases. This means that the addition as supply increases. This means that the addition to the supply price increases as output increases. On the other hand, in the case of our published increases as output increases as output increases. increases. On the other hand, in the case of an increasing returns industry, the absolute addition to the supply price falls with increasing output. For this reason, an advalored tax has a more pronounced effect on the tax has a more pronounced effect on the supply of a good being produced under

diminishing returns and a less pronounced effect on the supply of a good being produced under increasing returns. It can also be shown that under oligopoly with a kinked demand curve, if an indirect tax shifts marginal cost curve within the limits of vertical range of the marginal revenue curve, the output of the oligopolist would not be affected.

### Drawbacks of Marshallian Reasoning

However, Marshallian reasoning has its own drawbacks. It assumes that the tax revenue in the hands of authorities yields an equivalent benefit to the society while the loss to the society is equivalent to loss of consumer's surplus. Both these assumptions can be refuted easily. Further, he ignores the effect of taxation on producer's surplus. He also makes the mistake of deciding the social priority of an industry on the basis of its cost behaviour. To him an increasing returns industry should have a higher social priority than a diminishing returns one and, therefore, the former should be encouraged at the cost of the latter. However, this area of consideration leads us to infer that the authorities should be able to pick up a judicious set of indirect taxes on a selective basis for realizing a desired shift from the existing allocation of productive resources. Such a possibility is of great policy relevance in a country like ours where investment in high priority industries and infrastructure needs to be encouraged.

What is the role of taxation in resource allocation as between different uses? The answer lies in the assumption that it is possible to alter relative profitability of different resource uses through differential tax rates, tax concessions and even subsidies. This way, cost of supplying various goods and services can be altered selectively. Differential taxation of goods and services would similarly affect their demand pattern. What is needed is an appropriate pattern of tax coverage and rates to guide the economy's investment, production and demand flows sin the desired channels. But the success of this approach depends upon responsive elasticities of demand and supply of the taxed goods and services.

Marshallian reasoning, coupled with Dalton's treatment of sharing of tax incidence between the buyers and sellers leads us to the inference that, given the elasticity of supply, the effect on demand for a good will be directly related to its demand elasticity. Goods with higher elasticity of demand would be affected more and those with lower elasticity of demand would be affected less by a given tax rate and its revision. This implies that the extent to which a given tax on a commodity would reduce its output and release resources for other industries would depend upon its elasticity of demand. Similarly, a good with a higher elasticity of supply would be affected more by tax on it than a good with a lower elasticity. Goods with zero elasticity of supply or demand would not be affected at all by a tax on them and such a tax would have no effect on resources allocation. This analysis, therefore, tells us that we should consider the relevant elasticities of demand and supply of a good while using an indirect tax to shift its production and resource appropriation. But it still fails to tell us the way a tax should be distributed between commodities having same elasticity of demand but different elasticities of supply, or between commodities having same elasticity of supply but different elasticities of demand, or commodities having different elasticities of both demand and supply.

## Indirect Taxes and Income Distribution

The discussion of the allocative effects of indirect taxation would not be complete without considering the fact that it also affects income redistribution. Indirect taxation is proinflationary and widens income and wealth inequalities in the economy. This in turns

shifts demand relatively in favour of luxuries which, ordinarily, a less developed economy cannot afford. The result is a shift in the allocation of resources toward luxuries at the cost of necessities. Unless, therefore, indirect taxation of commodities is highly selective with reference to coverage and rates and takes into account their respective elasticities of demand and supply, it can prove a dangerous instrument in the hands of the authorities. On these grounds, therefore, the case for a selective commodity taxation is very strong in a country like India.

## Comparing the Effects of Representative Direct and Indirect Taxes

Let us, however, start with the assumption that the existing resource allocation is a optimum one and see the relative allocative effects of direct and indirect taxes. Though any tax will have both allocative and distributive effects, we would ignore the latter for the sake of simplicity of the argument. Also, we would assume that the economy having a state of full employment and there is no variation in the total supply of a factor This implies that greater employment of a factor in one use can be had only by reducife its employment in some other use. It should be noted that in a market economy, resourt allocation is guided by demand pattern. It would be, therefore, helpful to proceed analyzing the allocative effects of a tax by looking at the way it would influence the demand of a typical individual who may be taken to reflect, on the average, the tastes ability to enjoy income and so on of the society as a whole. Further, since we cannot take up the comparison for the allocative efforts of direct and indirect taxes as a whole, we must choose a representative direct tax and compare its allocative effects with those a representative indirect tax, assuming all the while that the government collects equal amount of tax revenue either way and the expenditure side of its activity unaffected by its choice between the two taxes. For this purpose, it is typical to choose a proportional income tax on the one hand and an indirect tax on a given commo on the other.

Thus, in the above framework we take up a typical consumer who is supposed spend all his income between two goods X and Y. Using the technique of indifference curves, we note that (see Fig. 3.4) our consumer has a budget price line  $A_1Q_1$ , and is equilibrium at point  $E_1$  enjoying an amount of satisfaction represented by the indifference and the consumer would be able to buy a smaller quantity, say  $OQ_3$ . His new equilibrium position would then be at  $E_3$  and he would slide down to a lower indifference curve. Now let the authorities impose an equal revenue yielding direct tax, so that the post budget price line  $A_2Q_2$  of consumer shifts downwards and lies parallel to  $A_1Q_1$ . It would did. However, it is seen that  $A_2Q_2$  would intersect  $I_3$  at two points. Therefore, the consumer shifts now equilibrium position being at  $E_3$ .

This analysis, with the assumptions upon which it is based, is used to make two assertions and an indirect tax is more burdensome than an equal yield proportional income of because the tax payers sacrifice more unit.

because the tax payers sacrifice more utility in the former case.

(b) Indirect taxes cause a greater distortion in the allocation of resources and that reason, are more burdensome than direct ones



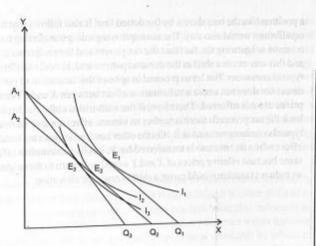


Fig. 3.4 Indifference Curve

We note that according to our assumptions,  $E_1$  represents an optimum production pattern. Direct proportional income tax shifts the demand pattern and, therefore, causes a distortion in the optimum allocation of resources. However, this distortion is due to the income effect, since taxation has caused a reduction in the disposable income of the tax payers. On the other hand, an indirect tax causes both a reduction in disposable income of the tax payers as also a shift in the relative prices of X and other goods. X became costlier as compared to the untaxed goods. This causes a substitution effect leading to a reduction in the demand for X over and above the income effect. Therefore, as between a direct and an indirect tax, the latter causes a greater distortion in the resource allocation.

The above conclusion, according to which indirect taxation is inferior to direct taxation in terms of resource allocation, is based upon the assumption that a shift in resource allocation on account of substitution effect of indirect taxation is *away* from the optimum. This however need not be so. If an economy is over-using resources in the production of good X, then indirect taxation of X should help the economy in moving closer to the optimum resource allocation. And we should not forget that the existing closer to the optimum resource allocation allocation which does not income distribution in the society may itself be causing an allocation which does not reflect true needs of the society. The thrust of the argument is that in case the existing pattern of resource allocation is believed to be in need of an improvement, then indirect taxation would be a better policy instrument than direct taxation.

## Superiority of Indirect Taxation Over Direct Taxation in Resource Allocation

The possibility of superiority of indirect taxation over direct taxation in resource allocation may be illustrated by extending the above model. Let us now bring in the production possibility curve PR of a representative producer, so that in conjunction with the indifference curves of the representative consumer and his budget price line  $A_1Q_1$ ,  $E_1$  becomes a curves of the representative consumer and his budget price line  $A_1Q_1$ ,  $E_1$  becomes a point of double equilibrium, that is at  $E_1$  both the marginal rate of substitution between X and Y are equal to the price ratio between X and Y as represented by the slope of the line  $A_1Q_1$ . In order to eliminate the income effect which is same in both direct and indirect taxes, let us assume that the authorities pay back the collected tax to the private sector by way of grants, so that the private sector retains the same amount of productive resources and the production possibility curve of its representative producer remains unchanged instead of shifting to

a position like the one shown by the dotted line. It also follows that the point of double equilibrium would also stay. The assumption regarding transferring back of collected tax revenue is ignoring the fact that the tax payers and the recipients of grants can different and this can cause a shift in the demand pattern and, hence, indifference curves of the typical consumer. But let us proceed in spite of this limitation of our argument. Now a direct tax does not cause a substitution effect between X and Y because their relative prices are not affected. Therefore, if the authorities collect a direct tax and transfered back the tax proceeds there is neither an income effect nor a substitution effect, and out typical consumer remains at  $E_1$ . On the other hand, an indirect tax would have no income effect when its revenue is transferred back, but its substitution effect would remain same because relative prices of X and Y would not return to the original position. Thus an indirect taxation would cause a shift in resource allocation.

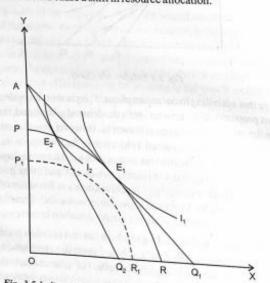


Fig. 3.5 Indirect Taxation Causes a Shift in Resource Allocation

However, if due to market imperfections or due to income inequalities the existing resource allocation is not considered an optimum one, then indirect taxation would be better instrument for shifting it towards the optimum position. If resources employed producing commodity Y are too few, X should be taxed and if resources employed existing resource allocation for X and Y is represented by point  $E_2$  where the consumption is at indifference curve  $I_2$  but where marginal rate of substitution between X and Y is the slope of the line  $A_1Q_2$  is not equal to the marginal rate of technical substitution between X and Y. Therefore, here the need would be to change the relative prices of the one represented by  $E_1$ .

## Judicious Choice of Indirect Taxes

In practice, the allocative effects of indirect taxes would be superior to those of direct taxes provided the government chooses the indirect taxes judiciously. In an underdevelopment, there is a need to shift the resources toward various priority industries

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indirect taxes can be of help there. Even in a modern developed economy, there are usually numerous market imperfections, monopolies and so on, as also a good deal of divergence between social and private costs on the one hand and between social and private benefits on the other. However, we should note that production of certain high priority goods may be lower not because resources invested in them are too few, but because due to market imperfections there are unutilized capacities as in the case of monopolies and monopolistic competition. The appropriate approach in breaking a monopoly is not to push more resources into it (as suggested by Prest) through taxation of goods produced by competitive industries and subsidizing the goods produced by monopolies. Instead steps should be taken whereby monopolies are forced to make use of their unutilized capacities.

Another reason on account of which a judicious use of indirect taxes turns out to be better than direct taxes in their allocative effects is the fact that it is rather difficult to have a really proportional income taxation. The very concept of taxable income is an imprecise one and its definition differs from country to country and even within the same country from time to time. We do not have even the critical standards by which to measure the income of self consumption, income from durable consumer goods and so on. Similarly, it is not easy to lay down exact standards by which to estimate the expenses for earning the income, or by which to estimate the depreciation. In a modern economy, due to changes in prices and other uncertainties, there are capital gains, windfall profits and casual incomes, which pose difficult problems of devising a system of proportional

In practice, the above comparison between the allocative effects of a proportional income tax with those of an equal yield indirect tax is an academic exercise only, since a modern government is expected to prefer a progressive direct income tax with an exemption limit to a proportional income tax.

## Allocative Effects of Individual Direct Taxes

To begin with we should note that a direct tax will have a resource allocative effect by changing the relative attractiveness of different sources of income. On this basis, therefore, we can state that a supplier of labour would shift from one employment or industry to another if by so doing he can reduce his direct tax liability more than the reduction, if any, in his earnings from the supply of his labour. If he finds that by shifting his employment, his tax liability remains unaltered, there would be no reallocative effect on existing labour supply in the economy. Similarly, a tax which does not change relative profitability of different forms of investment, or relative rates of returns from different forms of wealth, would not cause a reallocation of capital resources.

The effectiveness of tax tools is closely dependent upon some preconditions including the following, namely,

- sufficient freedom to private sector,
- a competitive market mechanism,
- belief of the market operators (savers, investors, producers, consumers, etc.) that the changes in tax structure are going to stay for a sufficiently long period, that is, their belief in the stability of the revised tax system,
- simplicity and transparency of the tax system, and
- a well-developed and responsive financial system.

Given these conditions, the market may be expected to respond to the policy measures of the tax authorities. Thus, for example, authorities can make use of tax concessions and penal taxes to divert investment from low priority to high priority industries. Differential taxation can also be used to influence the location of industries. And the same approach is available for promoting certain techniques of production. This fact can be used to help those industries which contribute towards a rapid capital accumulation in the country of those with faster growth in employment.

#### Allocative Effect on Labour

The foregoing approach may be used for a closer look at the allocative effects of some individual direct taxes. This may be done by examining the allocation of labour and capital. An allocative effect on labour operates through a variation in the relative attractiveness of wage incomes from different employments relative to the disagreeableness of those jobs. In general, less agreeable employments carry higher wage rates. A proportional income tax would reduce the absolute difference between the two wage rates, but the percentage difference would remain the same. A progressive income tax would reduce the difference in both absolute and percentage terms. Let take an example. Suppose the wage rates in two employments I and II are respectively ₹X and ₹1.5X per month. Thus, wage rate in employment II is 50 per cent more than employment I. Let a proportional income tax at the rate of 20 per cent of income B levied now. This would reduce the post tax wage incomes to ₹0.8X in employment 1 250 ₹1.20X in employment II. The absolute wage difference is now reduced to ₹0.4 $\chi$ 8 compared with ₹0.5X earlier but the wage rate in employment II is still 50 per cent more than in employment I. On the other hand, let the income tax be progressive, say 20 pc cent at an income of ₹X and 30 per cent at an income of ₹1.5X. Then the post tax was rates would be ₹0.8X in employment I and ₹1.05X in employment II. This reduces absolute difference between the two wages to ₹0.25X and makes the wages rate employment II only 31.25 per cent higher. Prest argues that a proportional income would reduce the compensation for less agreeable employment and would cause a ship of labour out of it. By the same token, a progressive income tax will have a great reallocative effect on labour. However, it should be noted that an appropriate compensation for a less agreeable employment ought to be not an absolute amount bull proportion of wage in the more agreeable employment. On this basis, both poll tax and proportional income tax should have a contract the proportional income tax should have a contract to the poll tax and the proportional income tax should have a contract to the poll tax and the proportion of the pro proportional income tax should have no reallocative effects on labour, but a progression income tax should cause a shift in labour. income tax should cause a shift in labour from less agreeable into more agreeable

## Allocative Effects on Capital

Before considering these effects, let us note that investments are not to be classificated between less agreeable and more agreeable ones, but between more risky and less risk ones. A more risky investment is the one the return from which is subject to a great variation. In line with Harry Markowitz, J. R. Hicks and G. L.S. Shackle and others, may look at the mean expected return (E) and the standard deviation of the expection return (s) to put the concept of riskiness in more precise terms. A more risky venture, that which, with given E, has a higher s, It should, therefore, carry a higher for a risky venture, it would cause two effects. Substitution effect will lower acceptable of more risky ventures to the investors leading to reallocation of capital resources.

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favour of less risky ventures. This effect would be stronger if income tax is progressive than when it is proportional. A reduction in income from investment (and a greater reduction in income from more risky ventures) would generate an income effect. However, whether investors, on account of lower income would strengthen their preference for safer ventures, or whether they would go in for still more risky ventures to compensate for that loss of income due to taxation, cannot be asserted with certainty. It would depend upon the capacity and will of the investors to bear risks. It may, however, be added that a poll tax does not discriminate between either the amount of income or its source and is therefore, neutral between alternative investments.

### Effect of Loss Offset

The foregoing discussion can be further elaborated in the light of the provision or absence of a loss offset. Absence of loss offset means that a positive income is subject to taxation but the tax authorities do not share the losses of investors, nor do they allow them to adjust the loss in one year against the income of another. In such a case, a risky venture automatically gets discriminated against if income tax is progressive, since its after tax average return  $E_x$  falls more than proportionately as compared with the fall in  $E_y$  of a less risky venture. A proportional income tax, on the other hand, does not discriminate against a risky venture unless its income falls to a negative figure for some intervals.

If income tax allows offsetting of a loss in one year against income in another year, then the average tax liability per annum is not affected by fluctuations in the yield. Instead it is determined on the basis of average yield E from a venture. Therefore, a proportional income tax does not discriminate against a risky venture if complete loss offset is allowed. The result with regard to a progressive income tax is, however, not that clear. It would largely depend upon the degree of progression in the tax rates, the timing of losses and gains, and the way the loss offsets are allowed. Ordinarily, progressive tax rates would tend to push  $E_o$  of risky ventures downwards and cause a reallocation of capital in favour of less risky ones. Thus, we find that as compared with a poll tax, income tax often discriminates against risky ventures unless it is proportional and allows a complete loss offset.

The allocative effect of a tax on capital would depend upon its form and coverage. A once over capital levy will leave the relative attractiveness of different capital assets Unchanged, but an annual levy would not. Different capital assets do not yield income at the same rate and some assets have no yield at all. An annual tax on capital brings about a shift in the relative attractiveness of different capital assets. This is further compounded by the fact that many capital assets pose problems of valuation. In any case, depending upon the nature of the effective shift in the relative attractiveness of capital assets, the investment allocation would be affected. Capital resources would tend to move out of less attractive into more attractive forms of investment. In practice, the relative attractiveness of capital assets is also affected by the efficiency of tax administration and other legal provisions. If, for example, capital invested in houses or agricultural land is not taxed, or is taxed at lower rates, or can be evaded due to ineffectiveness of tax hachinery, the shift of capital assets into these forms would take place.

## Taxation of Gifts

Another form of capital taxation is that of gifts. It means that when a capital owner gifts its owner at the capital taxation is that of gifts. It means that when a capital owner gifts its ownership during his lifetime, it is subjected to a tax which may be imposed on the giver or at giver or the recipient; and the tax amount may be determined with reference to the value

### Measuring Inequality

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Till now we have discussed the effects of taxation on distribution. The measurement of a shift in distribution, however is a separate question and poses difficulties of its own. These difficulties are both conceptual and practical, apart, from those emanating from lack of data and their reliability. In practice, we are often confronted with the task of measuring the degree of inequality in an existing distribution of income, specific assets or total wealth held by individuals or households. Frequently, a need arises to compare the degree of inequality of distribution as between two sets of individuals or groups, or to measure a shift in inequality as between two situations. For example, given the relevant information, we may attempt to measure a shift, if any, in inequalities of income and wealth distribution in India on account of the use of various tax measures.

Let us, for the sake of simplicity, confine ourselves only to the distribution of disposable income. If we arrange households in ascending order of their annual incomes then an inequality of distribution implies that starting from the poorest households, given proportion of total households enjoys a less than proportionate share of aggregate disposable income, while another proportion of households (at the top) enjoys a most than proportionate share of aggregate disposable income. Represented graphically, is measure percentage share of aggregate disposable income along horizontal axis appercentage of households enjoying it along vertical axis, the distribution curve would be situation in which a major proportion of the population happens to have an averagivery poor. Such a non skewed distribution will exhibit a huge degree of inequality between the richest and the poorest groups.

### Lorenz Curve

A very important measure of inequality is given by Lorenz Curve. A typical Lorenz Curve is shown in Figure 3.6. Abox diagram is used in which the proportion of population is measured horizontally and is cumulative from the poorest to the richest; the corresponding proportion of national income enjoyed by it is measured vertically. In our diagram, for example 70 per cent of the poorest population enjoys 29 per cent of the total national income. Plotting the pairs of these values gives us the Lorenz Curve. If income is distributed equally amongst all incomes groups of the society, the curve will be straight line diagonal from the left bottom corner to the right top corner, showing that the percentage share of income enjoyed and the percentage share of population enjoying are always equal to each other.

The degree of inequality is an estimate of the deviation of the Lorenz Curve front the line of equality, and is measured (in Figure 3.6) by

Area between the Lorenz Curve and the Line of Equality

Area of the Triangle OBC

Clearly, greater the gap between Lorenz Curve and the line of equality, greater the degree of inequality in distribution. The coefficient can theoretically vary between zero and 100 per cent. A higher value of coefficient shows greater inequality.

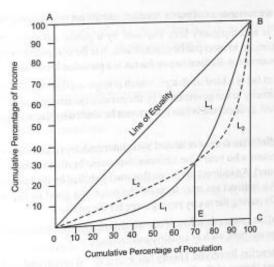


Fig. 3.6 Lorenz Curve

This measure estimates inequality over the entire range of income distribution as and is not able to account for the fact that a *compensatory* shift in income distribution as between different classes can take place without leading to any change in the aggregate measure of inequality. Thus, take the case as depicted in Fig. 3.6. It shows that income distribution has moved from  $L_1$  to  $L_2$  while giving the same measure of inequality. However, with the bottom OE percentage of population, income inequality has decreased while for richer proportion of population above OE, the inequality has increased. In other words, income has shifted from the middle income classes to both lower and upper income income has shifted from the middle income classes to both lower and upper income classes. But this shift is not captured by the measure of inequality as estimated by classes. But this shift is not captured by the measure of inequality as estimated by Lorenz Curve. This limitation of the curve implies that if we are to compare inequality as between two populations, or for the same population in two different situations, the two between two populations, or for the same population in two different situations, the two between two populations, or for the same population in two different situations, the two between two populations, or for the same population in two different situations, the two between two populations are calculated by the curve must lie throughout its length above (or curves must not intersect each other. One curve must lie throughout its length above (or below) the other.

## 3.7 SUMMARY

- Every government needs funds to finance its activities. Such funds are raised from various sources. It is difficult to give a complete list of all the sources of public receipts. But the important ones include taxes, income from currency, market borrowings, sale of public assets, income from public undertakings, fees, fines, gifts and donations and so forth.
- Broadly speaking, revenue receipts include 'routine' and 'earned' ones. For this
  reason, they do not include borrowings and recovery of loans from other parties,
  but they do include tax receipts, donations, grants, fees and fines. Capital receipts,
  on the other hand, cover those items which are basically of non-repetitive and
  non-routine variety and change government's financial liabilities/assets.
- Shirras' classification of revenue into tax and non-tax categories is accepted as most convincing classification of public revenue.

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### **Check Your Progress**

- Mention the two pre-conditions which govern the optimality of resource allocation.
- 11. What is the use of the Lorenz Curve?

- There are two sources of public revenue, namely tax revenue and non-tax revenue.
- A tax is a compulsory levy imposed by a public authority on persons and organizations to meet public expenditures. It is the compulsory payment made w the government. Refusal to pay the tax is a punishable offence.
- A direct tax is a kind of charge, which is imposed directly on the taxpayer and paid directly to the government by the persons (juristic or natural) on whom it is imposed. A direct tax is one that cannot be shifted by the taxpayer to someone else.
- An indirect tax is a tax collected by an intermediary (such as a retail store) from
  the person who bears the ultimate economic burden of the tax (such as the
  customer). An indirect tax is one that can be shifted by the taxpayer to someone
  else. An indirect tax may increase the price of a good so that consumers are
  actually paying the tax by paying more for the products.
- A good tax system, therefore, is one which is designed on the basis of an appropriate set of principles, such as equality and certainty.
- The Benefits Received Theory has a long dated origin and its roots lie in the contract theory of the State. A fuller survey of the evolution of this theory is available in Professor Edwin R. Seligman's Progressive Taxation in Theory and Practice. The theory was in vogue with German, French and other writers like Grotius, Hobbes, Locke, Hume and Rousseau.
- In 1896, Knut Wicksell (a Swedish economist) provided an ethical footing for the Benefits-Received Theory in the form of voluntary revelation, by taxpayers, of their demand schedules for State services
- Lindahl's solution suffers from all the problems which mathematical models suffer from, particularly the non-availability of stable and useable data.
- Lindhal's theory, which is a refinement of Wicksell's theory, is primarily aimed by
  telling us the way a society should choose an optimum level of output of public
  goods and the way the burden of their provision should be shared between
- Income is one of the most accepted indices of ability to pay, though it is usually supplemented by other tax indices also. Even Adam Smith, while asserting the proportion to respective incomes of the taxnavers
- Tax system of a modern economy happens to be a highly complex and multiple for example, each tax has a legally defined and quantifiable 'base' on which it is exemptions, rebates, cesses and surcharges, penalties and so on.
- Marshall recognized the possibility of a sub optimal inter-industrial allocation of consumer's surplus with the amount of tax collection
- Expenditure tax is generally discussed in the context of its effects on supply of savings and capital formation, but it has certainly its resource allocative effect between different forms and amounts of income and therefore neutral as between different employments of labour and capital.

Public Revem

 Market mechanism by itself generates ever-widening income inequalities. However, the objective of reducing inequalities is likely to come in conflict with that of increasing production and economic growth.

#### 3.8 KEY TERMS

- Property tax or 'house tax': It is a local tax on buildings, along with appurtenant land, and imposed on owners.
- Inheritance tax (also known as an estate tax or death duty): It is a tax which arises on the death of an individual.
- Indirect tax: It is a tax collected by an intermediary (such as a retail store) from the person who bears the ultimate economic burden of the tax (such as the customer).
- Central excise duty: It is a tax which is charged on such excisable goods that are manufactured in India and are meant for domestic consumption.

## ANSWERS TO 'CHECK YOUR PROGRESS' 3.9

- Revenue receipts include routine and earned ones. They do include tax receipts, donations, grants, fees, and fines and so forth. Capital receipts, on the other hand, cover those items which are basically of non-repetitive and non-routine variety and change government's financial liabilities/assets.
- The types of non-tax revenues of the government include the following:
  - Currency, coinage and mint
  - Interest receipts, dividends and profits
  - Other non-tax revenue
- 3. A direct tax is a kind of charge, which is imposed directly on the taxpayer and paid directly to the government by the persons (juristic or natural) on whom it is
- 4. An indirect tax is a tax collected by an intermediary (such as a retail store) from the person who bears the ultimate economic burden of the tax (such as the customer). An indirect tax is one that can be shifted by the taxpayer to someone
- 5. The canon of simplicity stands for the fact that the tax system should not be too complicated. That makes it difficult to understand and administer and breeds problems of interpretation and legal disputes.
- 6. A good tax system, therefore, is one which is designed on the basis of an appropriate set of principles, such as equality and certainty.
- Services supplied by the State may be divided into two categories. The first category consists of those services to which the principle of exclusion does not apply. In this case, every member of the society consumes these services and, therefore, should contribute to the State revenue in accordance with the benefits received. But, the other category is the one where the taxpayers have the option to accept or reject the state services. Here a market relationship is established between the two and, therefore, what the members of the society pay are the fees and the prices and not the taxes in strict sense of the term.

- 8. The well-known advocates of the Ability to Pay theory include Rousseau, J. B. Say, Adam Smith, J. S. Mill among others.
- The main theme of the Benefits Received Theory is that there is a contractual relationship between the State and its subjects such that the State provides various goods and services and the citizens finance their provision by paying taxes.
- 10. The two pre-conditions which govern the optimality of resource allocation are the following:
  - (i) Appropriate income distribution, and
  - (ii) Competitive market with unhindered working of market mechanism.
- 11. The Lorenz Curve is a graphical representation of income inequality or wealth inequality developed by American economist Max Lorenz.

## 3.10 QUESTIONS AND EXERCISES

## Short-Answer Questions

- 1. Define public revenue.
- 2. Name the main classifications of public revenue.
- 3. Write short notes on the following:
  - (a) Gift tax (b) Customs duty
- 4. What are the basic tenets of the Ability to Pay Theory?

## Log-Answer Questions

- Discuss the current status of tax and non-tax revenues in India.
- Explain the four canons of taxation as prescribed by Adam Smith.
- Critically analyse the Benefits Approach Theory.
- Illustrate the superiority of indirect taxation over direct taxation in resource allocation with the ball of indirect taxation over direct taxation in resource allocation with the help of a diagram.
- 5. What is the effect of taxation on distribution?
- Analyse the importance of Lorenz Curve.

## 3.11 FURTHER READING

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# Institute of Distance Education Rajiv Gandhi University A Central University

Rono Hills, Arunachal Pradesh

Contact us:









