

# INSTITUTE 1 DE E OF DISTANCE EDUCATION Rajiv Gandhi University

## (Formerly Centre for Distance Education) Rajiv Gandhi University Rono Hills, Doimukh

#### ASSIGNMENT RESPONSE FORMAT

Name	: Mr./Ms. Mai Tagan
ERN*/Roll No.	: MACCO 11
Class	: M.A -13+ Cem.
Subject	: Mathematics & statistics,
Paper	MAECO 404
Marked Obtained	
Walked Colors	

#### Instruction:

The assignments are to be written neatly in his/her own handwriting. Every candidate must submit completed assignment booklets <u>within the specified date.</u> It is one of the essential components of examination. The students are supposed to <u>obtain minimum 40%</u> of marks in assignment as per University rules.

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The learners can collect their assignment within the specified date from the respective Study Centres.

Section-A. 8.7 What is Straight Line? Die cuss the different forms of Strangent Line equation in stetall. Ans A Straight Line is defined by a Linear equation whose general form is. And + By + C=0, where It and to one hot not both agout to Zeno. The graph of the equation 12 a Straight time can be suppled sented by an equation of the above form. Different form of equations of a Straight Line. - We show Stant by finding the equation of a chraight line in tiplehend forms. The equation of a straight line , is the Delation between Ix and Y which is solic fled by the Co-ordinate of each and Hony Holns on the tine and by Anose of no other point. The quallon of a time panallel to the axes. - Let AB be a line parallel to the Y-axis. ato Statana a form it, Also Let AB be on the Might of 4-axib. Then abscissa of any point on the line AB will be a and also so Jos no bother points on the line AB and If ence, convolon of the time AB is so = a. If the the was on the text of Y-axis, bt's Equation would have been &= -a.

IA figitine sc = a Similarly, the equation of a line parallel to x-axis 10 x = p and x = -p It may be noted here that the equation of a curve closs not Mecessaully Contain both x and y. Corollary: The equation of y-axis x=0 De Slope of a line. When we boy that a line make a an angle o with the x Daris, It Means that of is the angle through which a stay Coluddont with the positive direction of the x-axis is to the solve in the onli- dock wise threction to Coincide with the line. So this angle O is a tre Angle lying between o' and 180 as Shown in the Houre.



## INSTITUTE 1 PE

Rajiv Gandhi University

(Formerly Centre for Distance Education)
Rajiv Gandhi University
Rono Hills, Doimukh

#### **ASSIGNMENT RESPONSE FORMAT**

Name	: Mr./Ms. MANGOIA TARI
ERN*/Roll No.	: MAGCO 17
Class	: M.A economics 3 <sup>ct</sup> semestor
Subject	MATHEMATICS AND STATISTICS
Paper	: MAECO 404
Marked Obtained	
Instruction :	

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QI

=>

Any expression of the type  $x \pm y$  & called Dromfal exposedion, z & called Broth first from and y, second from by elementary algebra, we know that  $(x+y)^2 = x^2 + 2xy + y^2$ ;  $(x+y)^3 = x^3 + 3x^2y + 3xy^2 + y^3$ . In this section two developed a formula for the air forward aty, in being a positive integers. We shall make one of policiple of Mathematical Induction in proving the expansion of  $(x+y)^n$ .

et. n & a positive integar, then

(x+y) = xn + "xxxxx y+ xxxxx y2... + 2ny".

proof. cleady from=I, LHS = 24g,
and

RAS = It 'C, y=x+y,

so hat occupt le trace for n=I.

et n+I>I and Modant betone for n.

Consider 
$$(x+y)^{n+1} = (x+y)^n(x+y)$$

$$= (x+y)^n(x+y)$$

$$= (x+y)^n(x+y)$$

$$= (x+y)^n(x+y)$$

$$= (x+y)^n(x+y)$$

$$+ (^nC_1x^{n-1}y^2 + ^nC_1x^{n-1}y^2 + ^nC_1x^{n$$

+ wis Cargust not Contagnes.



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#### **ASSIGNMENT RESPONSE FORMAT**

Name	ININ NACHA ZEMINM:
ERN*/Roll No.	: 19A14062
Class	MA (economics) FIRST SENESTER
Subject	MICRO ECONOMIC THEORY-I & MICRO ECONOMIC THEORY-II
Paper	901 \$ 405
Marked Obtained	: [46]
	100

#### Instruction:

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Sno. 1 Dregly discuss law of demindeling morginal celiety? discurs the properties of indéperence curries.

Introduction: The caw of dimenustring marginal utility explain lythe "H.H. gossen" in the year 1864? Hence, it is called "H.H Gossen" first equation. marshall this law and explained it in mire Edentific manner."

Explanation: Tues law explain the "common experience of every consumer? The "addletes mad colding" is derined from the additional cont "goes an dinunishing" so, It is called the law of démenselying margineel colliste Two Concepts in this law :

? Total utility. " Marginal utility.

1) TOTAL OTILITY: et is the total amount of Salisfaction dennied by the consumer from consumpteon of the total ellility of commodity.

MATHEMATICALLY: Tun = F(Qn)

Hence, Tun means total utility of (n) coults.

F means functional relationship.

On means quantity of (n) units of commodities

"i) MARGINAL UTILITY: The additional derined by the consumpted additional unit of Commodities.

MATHEMATICALLY . MUn = TUn - TUn-1

Hence, Mun = marginal cutility derived from the Consumption of 'n' cenits.

Tun = Total cething derinced from the consumption of 'n' units.

Tun = Total cething is downed from the consumption of n-1' units of commodifies.

#### TABLE:

Total number of apples.	Total utility (Tu)	Marginal Utility (MU)
1	30	30
.2	50	20 \$50-30
3	65-	15 GGS-5
4	75	10
3-	80	3- in
6	82	2
7	82	0
8	පිර	-2

In the above table total no. at appres are increase total cetility 1st to 5th numbers are increased total cetility 6th and 7th numbers are equal total cetility our numbers are equal total cetility our decreased. marginal cetility are decreased.

GRAPH EXPLANATION :



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#### **ASSIGNMENT RESPONSE FORMAT**

Name	: Mr./Ms. SIMA BAGANG	
ERN*/Roll No.	:_MAECO22	
Class	:1st Sem	4
Subject	: MICRO ECONOMIC THEORY-18>M	IICRO ECONOMIC THEORY-11
Paper	: MAECO-401& 405	
Marked Obtained	: 56	
	IN	

#### Instruction:

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- S1. Briefly discuss law of Diminuhing Marginal Utility? Discuss the properties of Indifference Corves.
- Ans; An economic law state that states that, all else being equal, as Consumption increases, the Safisfaction derived from each additional Unit decreases. Marginal Utility is the incremental increase in Utility.

properfies of Indifference Curves

Indifference Cornes drawn for fuo normal Substitute goods have fre following four basic properfies:

- i. Indifference Curves have a negative slope
- i. Indifference Convex are Convex to the Origin.
- in. Indifference Corves do not intersect nor are frey tangent to one another
- iv. Opper indifference auves indicate a higher level of Safisfactions.

These properties of indifference Curver, infact, reveal the Consumer's behaviour, his choices and preferences.

1. Indifference Curves have a negative Slope; In the words of Hicks, 'So long as each Commodity has a positive marginal whility I the indifference Curve must Slope downward to the right' as shown in figure 1.1

tigure 1.1 Shows two IC Corner:

- (i) A Curvilinear IC
- (11) A storaight line IC as shown by the line ps

p | L for Imperfeel

Substitute

Ic for perfeel

Substitute

Ic for perfee

Substitute

Ic Commodity X, 5

(per one of the fine)

The Curvilinear Ic represents Ic for two impurful substitute goods whereas straight line ps represent. Ic for two perfut substitute goods. In both the Cases, the Ic has a downword or a negative slope. The negative slope of an indifference curve implies; (a) that the two Commodities can be substituted for each other; and (b) that if the quantity of one Commodity decreases, quantity of the other Commodity must increase so that the Consumer stays at the same level of safisfaction of quantity of the other Commodity does not increase Simulfaneously, the bundle of Commodities will decrease as a result of decrease in the quantity of One Commodity.

Indifference Corves are Convex to the Origin of axes. They are generally convex to the Origin of the axes—
the left hand portion is normally steep, while the right hand portion is relatively flat. This property of the indifference Curves is derived from the law of diminishing maniginal rate of substitution.

The marginal rate of substitution has increased, the indifference curve would have been Concave to the Origin. The marginal rate of Substitution neither increases nor does it remain Constant. On the Confoary, it goes On diminishing. As such, the indifference Curve has to be convex to the Origin of exes.





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#### **ASSIGNMENT RESPONSE FORMAT**

Name	: Mr./Ms. TUNGAM NANGA
ERN*/Roll No.	
Class	: MA (Flonomics) First Semester
Subject	: Microeconomic Theory
Paper	: MACCO 401 Microeconomic Theory
Marked Obtained	· (56)

#### Instruction:

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#### SECTION - A

Question 1

Define utility? what age the two approaches of consumean demand analysis? Explain in detial.

And >> utility Definction: It is a measure of still faction an individual gets from the consumption of the commodities. In other words, it is a measurement or usefulness that a consumer of how much offer from any good.

There are two approaches to consumer demand analysis: cardinal utility approach or marshallan approach and ordinal utility approach

tion theory is the analysis of the consumpmaninizing behaviour of the consumer. The
fondamental postulate of the consumers. The
fondamental postulate of the consumption theory
households - aim at allily manigation and
all their decisions and actions as consumes

game directed towards utitity manimization

The Specific questions that consumption theory seek to answer ane;

youndthy of a commodify that he or she choses to consume, i.e how does a consumer attain his/her equilibrium.

") How does he or the alsocate his/her total consumption appenditure on various commodifies he/the consumes so that his/her total utility is maximized.

Assuption: The cardinal utility

approach to consumer analysis makes the following alsumptions.

(1) Rationality: It is assumed that the consumer is a rational being in the sense that helshe spirisfies histher want in the order of their Preference.

consumer intends to manimize his her satisfaction from his/her given money income.

a limited money income a the consumer has