Test Booklet No. _____

This booklet consists of <u>100</u> questions and 12 printed pages.

RGUPET/____/__

RGUPET 2023
Ph.D. in ECONOMICS

Full Marks: 100   **Time: 3 Hours**

Roll No.

Day and Date of Examination   :

Signature of Invigilator(s)   :

Signature of Candidate   :

General Instructions:

PLEASE READ ALL THE INSTRUCTIONS CAREFULLY BEFORE MAKING ANY ENTRY.

1.   DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE TOLD TO DO SO.

2.   Candidate must write his/her Roll Number on the space provided.

3.   This Test Booklet contains 100 Multiple Choice Questions (MCQs) from the concerned subject. Each question carries 1 mark.

4.   Please check the Test Booklet to verify that the total pages and total number of questions contained in the test booklet are the same as those printed on the top of the first page. Also check whether the questions are in sequential order or not.

5.   Candidates are not permitted to enter into the examination hall 15 minutes after the commencement of the entrance test or leave the examination hall before 30 minutes of end of examination.

6.   Making any identification mark in the OMR Answer Sheet or writing Roll Number anywhere other than the specified places will lead to disqualification of the candidate.

7.   Candidates shall maintain silence inside and outside the examination hall. If candidate(s) is/are found violating the instructions mentioned herein or announced in the examination hall, they will be summarily disqualified from the entrance test.

8.   In case of any dispute, the decision of the Entrance Test Committee, RGU shall be final and binding.

9.   The OMR Answer Sheet consists of two copies, the Original copy and the Student's copy.

1	Which of the following is an indication of the quality of a research journal?				A	Impact Factor
	a) Impact Factor	b) Google Scholar factor	c) scholar domain factor	d) JSTOR factor		
2	Which of the following sampling methods is based on probability?				D	Stratified sampling
	a) Random Sampling	b) Snow Ball Sampling	c) Quota Sampling	d) Stratified sampling		
3	Which one of the following is not a non- parametric test?				A	t-test
	a) t-test	b)Sign test	c)Chi-square test	d)Run test		
4	Deconstruction is a popular method of research in				C	Literature
	a) Social Science	b) Life Science	c) Literature	d) Physical Science		
5	In sampling, the lottery method is used for				B	Randomization
	a) Conceptualisation	b)Randomization	c) Sequence	d) Demarcation		
6	In a thesis, figures and tables are included in				D	The text itself
	a)The appendix	b)A separate chapter	c)The concluding chapter	d)The text itself		
7	The frequency distribution of a research data which is symmetrical in shape similar to a normal distribution but centre peak is much higher, is				D	Leptokurtic
	a)Mesokurtic	b)Skewed	c)Platykurtic	d)Leptokurtic		
8	Male and female students perform equally well in a numerical				C	Null

	aptitude test'. This statement indicates a					hypoth esis
	a)Research hypothesis	b)Directional hypothesis	c)Null hypothesis	d)Statistical hypothesis		
9	Ethical norms in research do not involve guidelines for				B	Thesis format
	a)Copyright	b)Thesis format	c)Patenting policy	d)Data sharing policies		
10	In finalizing a thesis writing format which of the following would form part of supplementary pages?				D	Bibliogr aphy and Append ices
	a) List of tables and figures	b) Table of contents.	c) Conclusions of the study.	d) Bibliography and Appendices		
11	A variable that measures the effect of a manipulated variable is known as					Depend ent variable
	a)Independen t variable	b)Dependent variable	c)Confoundin g variable	d)Controlled variable	B	
12	Lottery method is a popular method of collecting data under					Simple random samplin g
	a) Simple random sampling	b) Stratified sampling	c) Systematic sampling	d) Cluster sampling	a	
13	If we are to choose any five numbers whose total is 100, we can exercise our independent choice for any					4 number s
	a) 2 numbers	b) 3 numbers	c) 4 numbers	d) 5 numbers	c	
14	As on May, 2023, the number of states and union territories in India are respectively...					28 and 8
	a) 29 and 7	b) 30 and 6	c) 27 and 9	d) 28 and 8	d	
15	Headquarter of Work Bank is at					

		a) Chicago	b) Washington, D.C.	c) New York	d) Los Angeles	b	Washington, D.C.
16	Which one of the following is not a method of collecting data?					d	Lottery method
		a) Direct personal interview	b) Indirect oral interview	c) Information from correspondents	d) Lottery method		
17	A person who fills the questionnaire or supplies the required information is					a	Respondent
		a) Respondent	b) Investigator	c) Witness	d) Enumerator		
18	A person who collect data is					d	Enumerator
		a) Respondent	b) Examiner	c) Witness	d) Enumerator		
19	Which one of the following is an economic character?					d	Employment
		a) Gender	b) Religion	c) Caste	d) Employment		
20	Complete the series ….,D,G,K,P,V					b	B
		a) A	b) B	c) C	d) Y		
21	The value of 10! =…………….					a	3628800
		a)3628800	b)1814400	c)604800	d)151200		
22	Which sampling technique is applied when the population to be studied is unidentified?					(c)	Snowball sampling
		a) Purposive sampling	b) Random sampling	c) Snowball sampling	d) Probability sampling		

23	Which of the following is an example of qualitative data?					
	a) Income of a person	b) age of a person	c) height of a person	d) gender of a person	(d)	gender of a person
24	Which of the following is a method of collection of primary data?					
	a) Direct personal interview	b) Telephonic interview	c) focus group discussion	d) All of the above	(d)	All of the above
25	Which of the following data is based on complete enumeration?					
	a) Census data	b) NSSO data	c) NFHS data	d) All of the above	(a)	Census data
26	The data collected from households at a particular point of time are called…					
	a) Time series data	b) Cross sectional data	c) Panel data	d) Quantitative data	(b)	Cross sectional data
27	Which of the following test is used to detect the problem of autocorrelation?					
	a) VIF test	b) Breusch-Pegan-Godfrey test	c) White's test	d) Durbin-Watson test	(d)	Durbin-Watson test
28	Which of the following test is used to determine the goodness of fit of a regression model?					
	a)	b) T-test	c) F-test	d) Z-test	(d)	F-test

	Chi-squire test					
29	Which of the following statistical method is used to measure the consistency of performance of an agent?					
	a) Geometric mean	b) Quartile deviation	c) Mean deviation	d) Standard deviation	(d)	Standard deviation
30	Which of the following is a sample size determination criteria?					
	a) Simpson Index	b) Herfindahl Index	c) Laspeyres formula	d) Yamane's formula	(d)	Yamane's formula
31	Which of the following sampling techniques is usually used to make the sample representative of the population?					
	a) Purposive sampling	b) Convenience sampling	c) Stratified random sampling	d) Snowball sampling	(c)	Stratified random sampling
32	Which of the following graphical methods is mostly used to represent the data related percentage share?					
	a) Line graph	b) Pie diagram	c) Bar diagram	d) Multiple bar diagram	(b)	Pie diagram
33	The data which are collected by the researchers through the field survey are called….					
	a) Primary data	b) Secondary data	c) Tertiary data	d) Quantitative data	(a)	Primary data
34	The size of the sample is ……………….. the population.				c	Smaller than
	(a) equal to	(b) greater	(c) smaller	(d) un		

	than	than	rel at ed to		

35	Tashi estimated an econometric model regarding the consumption expenditure of the households of Arunachal Pradesh and has made prediction for the year 2030; then it is ……			d	Forecas ting
	a) Point prediction	b) Interval prediction.	c)Behavioural prediction	d) Forecasti ng	

36	Which of the following is not a characteristic of the small sample?			c	Consist ency
	(a) Unbiasedn ess.	b) Efficiency .	c) Consistency	d) Linearity	

37	What is type-I, error?			c	A null hypoth esis is rejecte d when it is true
	a) When the null hypothesis is not clear	b) When we need not to test the null hypothesis	c) A null hypothesis is rejected when it is true	d) A null hypothesi s is not rejected when it is false	

38	Random disturbance term is …………			a	Unobse rvable
	a) Unobservable	b) Always observable	c) Sometimes observable	d) Rarely observabl e	

39	What is cross section data?			c	Data collecte d at a point of time
	a) Data collected over the period of time	b) Data collected in the past.	c) Data collected at a point of time	d) Data collected across different	

					caste and religion		
40	The value of correlation co-efficient lies between……….					a	-1 and 1
	a) -1 and 1	b) 0 and 100	c) $-\propto$ and $\propto$	d) None of the above.			
41	what is the probability of a sample space?					b	1
	a) 0	b) 1	c)∞	c) 0.5			
42	Who is not a member of ASEAN?					d	Sri Lanka
	a) Cambodia	b) Indonesia	c) Malaysia	d) Sri Lanka			
43	Which one of the following is different from the others?					a	Cup
	a) Cup	b) Book	c) Pen	d) Pencil			
44	**Which one of the following is not a method of primary data collection?**					d	Data collected from published source
	a)Direct personal interviews	b)Indirect oral interview	c)Mailed questioner method	d)Data collected from published source			
45	**Bar diagram is**					a	One

					dimensional
	a) One dimensional	b) Two dimensional	c) Three dimensional	d) None of the above		
46	**Which of the following is not a measure of central tendency?**				d	Range
	a) Arithmetic mean	b) Harmonic mean	c) Median	d) Range		
47	**Coefficient of mean deviation is** a.				a	A relative measure of dispersion
	a)A relative measure of dispersion	b)An absolute measure of dispersion	c)A measure of central tendency	d)None of the above		
48	**If mode and mean are 32.1 and 35.4 respectively, median is**				a	34.3
	a)34.3	b) 32.2	c) 31.2	d) 30.3		

DOMAIN

49	If the equation of a circle is $x^2+y^2+6x-4y-3=0$, the centre and radius are respectively				a	(-3,2) and 4
	a) (-3,2) and 4	b) (-3,2) and -4	c) (-3,-2) and 4	d) (2, -3) and 4		
50	Determinant is the scalar number associated with a……………				c	Square matrix

a)Row matrix	b) Column matrix	c) Square matrix	d) matrix of any types		
51	If y=5e^{-3x}, $\frac{dy}{dx}$ = $\cdots$			b	-15e^{-3x}
	a)15e^{-3x}	b) -15e^{-3x}	c) -15e^x	d) 15e^x		
52	If average revenue AR=100-3q, the elasticity of demand at q=5 is			a	5.66
	a) 5.66	b)-4.66	c)5.06	d)-5.06		
53	If y=$2x_1^2 + x_1x_2 + 3x_2^2$, then $\frac{\partial y}{\partial x_1}$=......			c	$4x_1+x_2$
	a) $-4x_1+x_2$	b) $4x_1 - x_2$	c) $4x_1+x_2$	d) x_1+6x_2		
54	$\int 2x(x^2+1)dx$=.......			a	$\frac{x^4}{2} + x^2 + \frac{1}{2} + c$
	a)$\frac{x^4}{2} + x^2 + \frac{1}{2} + c$	b)$\frac{x^4}{2} + 2x^2 + \frac{1}{2} + c$	c)$\frac{x^4}{2} - x^2 + \frac{1}{2} + c$	d)$\frac{x^4}{2} + x^2 + \frac{1}{2}x + c$		
55	The area under the curved $y = 3x^2 - 6x + 8$ from x=0 to x = 2 is			b	12
	a) 16	b) 12	c) 10	d) 8		
56	Which of the following economists suggested for deliberate unbalancing of the economy for economic development?			(d)	Albert O. Hirschman
	a) Ragnar Nurkse	(d) Alexender Dominic	Albert O. Hirschman	d) Albert O. Hirschman		
57	According to Lewis model, which of the following type of unemployment exists in traditional agricultural sector?			(c)	disguised unemploym ent
	a) Involuntary unemployme nt	b) Voluntary unemploymen t	c) disguised unemployment	d) seasonal unemploymen t		
58	Which of the following is not a component of human development index?			(c)	Fertility rate
	a) Life expectancy at	b) Per capita GDP	c) Fertility rate	d) Literacy rate		

	birth					
59	According to Harrod-Domar model, given the capital-output ratio, warranted rate of growth depends on….				(c)	Saving-income ratio
	a) Marginal productivity of labour	b) Marginal efficiency of investment	c) Saving-income ratio	d) Growth rate of labour force		
60	According to Smith's theory of growth when the economy reaches stationary state, the profit becomes				(d)	Zero
	a) Maximum	b) Moderate	c) Minimum	d) Zero		
61	According to Solow model, which of the following is a determinant of long-run growth of the economy?				(d)	All of the above
	a) Technology	b) Capital	c) Labour force	d) All of the above		
62	According to Kaldor theory of growth, technical progress depends on…				(a)	Capital accumulation
	a) Capital accumulation	b) Capital-output ratio	c) Labour productivity	d) Exogenous factors		
63	According to the theory of disembodied technical progress, labour and capital are….				(a)	Homogenous
	a) Homogenous	b) Heterogenous	c) Exogenous	d) Endogenous		
64	According to endogenous growth model, long-run economic growth depends on…				(d)	New knowledge
	a) Division of labour	b) Technology	c) Labour force	d) New knowledge		
65	According to Myrdal's theory of cumulative causation, which effect causes perpetuation of poverty in the underdeveloped region?				(b)	Backwash
	a) Spread effect	b) Backwash effect	c) Linkage effect	d) Spill over effect		

					effect		effect
66	The government should intervene in provision of merit goods because of …						
	a) Non-excludability	b) non-rivalry	c) both non-excludability and non-rivalry	d) positive externalities		(d)	positive externalities
67	Which of the following is a not a non-tax revenue receipt?						
	a) Forfeiture	b) Interest receipt	c) Escheats	d) Octroi		(d)	Octroi
68	According to Wiseman-Peacock hypothesis public expenditure increases in a						
	a) Continuous manner	b) Smooth manner	c) Jerky manner	d) Extensive manner		(c)	Jerky manner
69	The 15th Finance Commission recommended that the share of States in the central taxes shall be…						
	a) 32 per cent	b) 41 per cent	c) 42 per cent	d)46 per cent		(b)	41 per cent
70	The 15th Finance Commission assigned 10% weightage to which of the following criteria for horizontal distribution of resources						
	(a) Population	(b) Forest & ecology	c) Area	d) Tax & fiscal efforts		(b)	Forest & ecology
71	Which of the following is not a recurring expenditure of the government?						
	a) Wages and salaries	b) Pension payment	c) Acquisition of assets	d) Interest payment		(c)	Acquisition of assets
72	Which of the following is the best example of a neutral tax?						
	a) GST	b) Excise duty	c) Custom duty	d) Head tax		(d)	Head tax
73	Fiscal deficit will be equal to interest payments when….						

	a) Revenue deficit is zero	b) Primary deficit is zero	c) Capital expenditure is zero	d) Monetised deficit is zero	(d)	Primary deficit is zero
74	The mismatch between revenue and expenditure of different level of governments in a federation is called…					
	a) Horizontal Imbalance	b) Vertical Imbalance	c) Fiscal Imbalance	d) Budgetary imbalance	(b)	Vertical Imbalance
75	Which of the following economists stated that equality in taxation means equality in sacrifice?					
	a) Dalton	b) Adam Smith	c) A. C. Pigou	d) J.S Mill	(d)	J.S Mill
76	For a Cobb-Douglas production function exhibiting constant return to scale, sum of output elasticity with factors will be equal to:				C	equal to unity
	a) Greater than unity	b) Less than unity	c) equal to unity	d) Zero		
77	For a normal good, substitution effect for a price change is				a	Negative
	a) Negative	b) Positive	c) Zero	d) Unity		
78	Given a Utility function U = 4 X+ 3Y, Marginal rate of substitution between X and Y is equal to				a	4/3
	a) 4/3	b) 3/4	c) 0.5	d) 1		
79	For a inferior good substitution effect is				c	Positive
	a) Negative	b) Zero	c) Positive	d) Unity		
80	For a CES production function, elasticity of substitution is unity. In that case the output elasticity will be equal to				d	Unity
	a) Negative	b) Zero	c) Positive	d) Unity		
81	Given a Utility function U= $X^{0.3}Y^{0.7}$, Budgetary constraint is given as 100= 10X+ 15Y, Marginal rate of Substitution between X and Y is				b	3y/7x
	a) 7x/3y	b) 3y/7x	c) x/y	d) y/x		

82	Given a Utility function U= $X^{0.3}Y^{0.7}$, Budgetary constraint is given as 100= 10X+ 15Y, what is the equilibrium consumption of X				a	X=2.99,
	a) X=2.99	b) X=2.49,	c) X=2.33,	d) X=2.39,		
83	Given a Utility function U= $X^{0.3}Y^{0.7}$, Budgetary constraint is given as 100= 10X+ 15Y, what is the equilibrium consumption of Y				a	4.67
	a) Y= 4.67	b) Y= 4.87	c) Y= 4.39	d) Y= 4.89		
84	For a monopolist, given the demand function X= 50-0.5P and Cost function C=50+40X, what is the equilibrium output of X?				c	15
	a) 20	b)10	c)15	d)20		
85	In the business cycle analysis, the opposite of a trough is…..				a	Peak
	a) Peak	b) Stagnation	c) Inflation	d) Deflation		
86	In order to influence spending on goods and services in the short run, monetary policy is directed at influencing……..				c	Interest rate
	a) GDP growth rate	b) Unemployment rate	c) Interest rate.	d) Inflation rate.		
87	According to capital asset pricing model, if the expected return of a security is greater than its actual return; then it is……				a	Over priced
	(a) Overpriced.	(b) Underpriced.	(c) Profitable.	d) Misleading.		
88	Interest rate risk is an example of ………………				a	Systematic

						risk
	(a) Systematic risk.	(b) Banking risk.	(c) Unsystematic risk.	d) Capital lost risk.		
89	What is risk?				d	Variability in return
	a) Negative return	b) Loss of capital	c) Loss of financial assets	d) Variability in return.		
90	Portfolio investment reduces ……………				b	Unsystematic risk
	a) Systematic risk	b) Unsystematic risk	c) Corporate risk	d) interest rate risk		
91	Which of the following is not an element of social capital?					
	a) Networks	b) Reciprocity	c) Trust	d) Skill	(d)	Skill
92	Which of following in not a reason for market failure in developing countries?					
	a) Asymmetric information	b) Externalities	c) Lack of property rights	d) Lower per capita income	(d)	Low per capita income
93	Which of the following is a barrier to agricultural transformation?					

a) Fragmentation of land holdings	b) tenancy	c) conservatism	d) All of the above	(d)	All of the above
94 Which of the following is not a rationale for economic planning in a developing economy?					
a) Market failure	b) Institutional failure	c) Resources mobilisation and allocation	d)) Foreign aid	(b)	Institutional failure
95 According to Mahalanobis two-sector model of planning, growth of the economy is high when the higher proportion of investment is allocated to….					
a) Capital goods sector	b) Consumer goods sector	c) Service sector	d) Primary sector	(a)	Capital goods sector
96 Samuelson's substitution theorem is based on the criticism of which assumption of input-output analysis?					
a) The economy consists of two sectors	b) There are no joint products	c) There are fixed technical coefficient of production	d) There are constant returns to scale	(c)	There are fixed technical coefficient of production
97 According to Krueger model, rent seeking activities lead to which of the following results?					
a) Operation of the economy below transformation curve	b) Higher welfare loss	c) divergence between private and social cost	d) All of the above	(d)	All of the above
98 Which of the following is the most significant barrier to export promotion of developing countries?					
a) Low income elasticity of demand for primary products	b) development of synthetic substitutes	c) Low population growth in developed countries	d) Inferior quality of products	(b)	development of synthetic substitutes

99	Among the eight Northeastern States, the one having the highest per capita NSDP				d	Sikkim
	a) Arunachal Pradesh	b) Assam	c) Meghalaya	d) Sikkim		
100	The Northeastern State with the lowest per capita NSDP in the region is					
	a) Manipur	b) Assam	c) Arunachal Pradesh	d) Meghalaya	b	Assam

SPACE FOR ROUGH WORK