ENTRANCE TEST FOR Ph.D. PROGRAMME, 2023

ECONOMICS

Time: Three Hours

Maximum: 100 Marks

Part A

Answer all questions.

Each question carries 1 mark.

Choose the correct answer from the choices:

- 1. The conditions of equilibrium of a firm are:
 - (A) AC = MC with negative slope of MC.
 - (B) AR = MC with positive slope of MC
 - (C) MR = MC with positive slope of MC.
 - (D) MR = MC with negative slope of MC.
- 2. The Average Revenue (AR) of a monopoly firm is:
 - (A) Always more than the Marginal Revenue (MR).
 - (B) Always less than the MR.
 - (C) Equal to the MR.
 - (D) Sometimes more and sometimes lesser than the MR.
- 3. Which of the following is not an objective of fiscal policy in a developing country?
 - (A) Accelerating the rate of capital function without inflation.
 - (B) Accelerating investment.
 - (C) Maintain full employment.
 - (D) Price stability.
- 4. As capital stock increases, the Marginal Efficiency of Capital (MEC):
 - (A) Increases.
 - (B) Decreases.
 - (C) Increase in the beginning later start decreasing.
 - (D) Remains constant.

Turn over

5.	In Wal	rasian general equilibrium model, a	ll pric	es and quantities in all markets are determined:					
	(A)	Independently.	(B)	Simultaneously.					
	(C)	One after another.	(D)	Separately.					
6.	The dy	namic theory of profit by J.B. Clark says:							
	(A)	Profit is due to expectations under	cond	itions of uncertainty.					
• .	(B)	Profit is because of the risk of enti	eprer	neur.					
	(C)	Profit is the result of innovation.							
	(D)	Profit is the difference between pr	ice an	nd cost of production.					
7.		one of the following statistical tech se on crop yield?	nique	s could be used to assess the impact of change in					
	(A)	Correlation co-efficient.	(B)	Standard deviation.					
	(C)	Co-efficient of variation.	(D)	Regression.					
8.				ariables has been computed for 25 observations. and denominator in F test process?					
	(A)	4 and 21 respectively.	(B)	4 and 20 respectively.					
*	(C)	3 and 20 respectively.	(D)	None of these.					
9.	In the method		best	linear unbiased estimators are provided by the					
	(A)	Maximum likelihood estimator.	(B)	OLS.					
	(C)	Indirect least square.	(D)	Weighted least square.					
10.	The do	minant objective of Monetary Policy	y is :						
	(A)	Money Supply.	(B)	Controlling Demand for Money.					
	(C)	Achieving Price Stability.	(D)	Promoting Foreign Trade.					
11.	If the pon:	rice elasticity of demand for a produ	uct is	perfectly inelastic, the entire tax incidence will be					
	(A)	The buyers.	. •						
	(B)	The sellers.	-						
•	(C)	Shared between the buyers and se	ellers						
	(D)	The government.	•						

12.	Milton Friedman's quantity theory of mor	ney co	nsists of:
	(A) Bonds.	(B)	Equities.
	(C) Human capital.	(D)	All the above.
13.	A rise in the median age of population is	knowr	n as:
	(A) Demographic Transition.	(B)	Demographic Ageing.
	(C) Demographic Instability.	(D)	Demographic Momentum.
14.	HDI is not composed of:		
	(A) Longevity.	(B)	Human freedom.
	(C) Literacy.	(D)	Level of income.
15.	Harrod-Domar Model was adopted in wh	ich Fiv	ve Year Plan of the following in India?
	(A) Ninth Five Year Plan.	(B)	Third Five Year Plan.
	(C) Second Five Year Plan.	(D)	First Five Year Plan.
16.	'Residex' is associated with:		
	(A) Share prices.	(B)	Mutual fund prices.
• .	(C) Product prices.	(D)	House prices.
17.	Arrange the following theories in order in	n whic	h they appeared:
	1 Leontief Paradox.	•	
	2 Absolute Cost Advantage Theory.		
	3 Factor Endowment Theory.		
	4 Comparative Cost Advantage Theory	у.	
•	(A) 1, 3, 2, 4.	(B)	2, 3, 4,1.
* 7	(C) 2, 4, 3,1.	(D)	1,4, 2, 3.
18.	Given Q = Output, and L = Number of La	abour,	then Q/L is:
	(A) Total product.	(B)	Average product.
i.	(C) Marginal product.	(D)	Labour ratio.

Turn over

15.	THE CO	ncept of Reserve Army is found	u III .	
	(A)	Classical analysis.	(B)	Hicksian analysis.
	(C)	Schumpeterian analysis.	(D)	Marxian analysis.
20.	Which	of the following is TRUE of an u	ınregulat	ted monopolist?
•	(A)	P < MC.	(B)	P > AR.
	(C)	P > MR.	(D)	P = AC.
21.	Accord	ing to Milton Friedman, Quanti	ty Theor	y of Money is the theory of :
	(A)	Prices.	(B)	Income.
	(C)	Demand for Money.	(D)	Supply of Money.
22.	For cor	ntrolling inflation, the Central E	Bank shou	ıld :
	(A)	Lower the Bank Rate.		
	(B)	Sell government securities in t	the open	market.
	(C)	Purchase government securiti	es in the	open market.
	(D)	Lower the Reserve Ratio of the	e banks.	
23.	Credit	deadlock refers to a state when	• · · · · · · · · · · · · · · · · · · ·	
	(A)	Credit is available, but borrow	ers are s	carce.
	(B)	Banks close their loan window	7.	
	(C)	There are more borrowers and	less cred	lit.
	(D)	A steep rise in bank rate.		
24.	Laffer	curve studies the relationship b	etween :	
	(A)	Tax rate and expenditure.	(B)	Tax rate and tax revenue.
	(C)	Tax rate and consumption.	(D)	Tax rate and welfare.
25.		opportunity cost theory of Inte e to the origin indicates :	rnational	Trade, the production possibility curve which i
	(A)	Increasing opportunity cost.	(B)	Decreasing opportunity cost.
	(C)	Constant opportunity cost.	(D)	Changes in the opportunity cost.
4			•	
			•	

26.		of the following is the Registration System	· •	e age group of 15-19 years	in 2016 as reported by
	(A)	12.3.	(B)	6.7.	
	(C)	10.7.	(D)	8.2.	
27.	Which agricul	T + +	awards is associ	ated with an outstanding	work in the field of
	(A)	Boliver Award.	(B)	Borlang Award.	
	(C)	Pulitzer Award.	(D)	Magsaysay Award.	
28.	Who pr	ropounded Wage-Good	ls Model ?		
	(A)	Maurice Dobb.	•		
	(B)	A. K. Sen.			
	(C)	C. N. Vakil and P. R	. Brahmananda .		
	(D)	P. C. Mahalanobis.			
29.	Deposi	t multiplier is defined	as:		
	(A)	$k=\frac{1}{r}.$	(B)	/ k = r .	
	(C)	$r = \frac{1}{k} - 1.$	(D)	k=1-r.	
30.	The be	nefits of the goods wh	ich spread beyond	immediate recipient are kn	own as:
	(A)	Non-merit goods.	(B)	Merit goods.	
	(C)	Free goods.	(D)	Club goods.	
31.	-	T	<u> </u>	is given as; $Y = 5 - 0.1 X$. Values of Y and X are 20 as	
	(A)	15.	(B)	20.	
	(C)	25.	(D)	- 25.	
32.	Supply	side tax policy is asso	ociated with the na	me of:	
	(A)	Robert Lucas.	(B)	Aurther Laffer.	
	(C)	Stanley Fisher.	(D)	A.W. Phillips.	Turn over

33.	The government of India adopted zero base budgeting since April:					
	(A) 1980.	(B)	1988.			
. '	(C) 2000.	(D)	1987.			
34.	The value of Durbin Watson d statistics	*				
	(A) Ranges from -1 to $+1$.	(B)	Ranges from 0 to 1.			
	(C) Ranges from $-\alpha$ to $+\alpha$.	(D)	Ranges from 0 to 4.			
35.	Which of the following is not a developm	ent exp	penditure of the State?			
. , ,	(A) Debt services.	(B)	Medical and health,			
	(C) Development of agriculture.	(D)	Education.			
36.	The model in which Y depends on curren	t and p	revious time period error term is:			
	(A) AR (1) model.	(B)	Single equation model.			
	(C) ARMA (1, 1) model.	(D)	MA (1) model.			
37.	37. Test statistic used to distinguish trend stationary and difference stationary is					
	(A) Engle-Granger test.	(B)	Dickey-Fuller test.			
•	(C) F-test.	(D)	Error Correction Mechanism.			
38.	What among the following are the determ	ninants	s of price elasticity of demand?			
	1 Nature of the good,					
	2 Price of related goods.					
	3 Government policy.					
	4 Proportion of income spent on the go	ood.				
	(A) 1, 2, 3 and 4.	(B)	1, 2 and 3 only.			
	(C) 2, 3 and 4 only.	(D)	1, 2 and 4 only.			
4						

(B)

(D)

1 and 3.

1 and 2.

39. Which of the following tools are available to Central bank for the control of money supply?

1 Variation in bank rate.

(A) 1, 2 and 3.

(C) 2 and 3.

2 Cleaning house operations.

3 Changes in statutory liquidity rate.

40. Arrange the following growth models in a chronological order:

Ċ	1 Kaldor Model.			
	2 Solow Model.			
	3 Meade Model.			
	4 Harrod Model.	:		
	(A) 4, 2, 1, 3.	(B)	1, 2, 3, 4.	
	(C) 4, 3, 2, 1.	(D)	3, 4, 1, 2.	
41.	Arrange the following in the chronological	orde	r of their establishment :	
•	1 UNCTAD.			
	2 WTO			
	3 GATT.			v.
	4 IBRD.			
	(A) 1, 3, 4, 2.	(B)	4, 3, 1, 2.	
•	(C) 1, 2, 3, 4.	(D)	4, 3, 2,1.	
42.	Foreign trade multiplier can be expressed	as:		
	(A) $Y = C + I + X + M$.	(B)	Y = C + I + X - M.	
	(C) $Y = C - 1 + X - M$.	(D)	Y = C + I - X + M.	
43.	Theory of Customs Union was first develo	ped sy	ystematically by:	
	(A) Jacob Viner.	(B)	Haberler.	
	(C) Lipsey.	(D)	Vanek.	
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77.	by:	ect of the increase in the su	ppiy of om	y one	ractor on the production of co	amiouity is explained
	(A)	Rybezynski's theorem.	***	(B)	J. Bhagawati's theorem.	
	(C)	Ricardian theory.	•	(D)	Adam Smith's theory.	
45.	Moving	g Average is used in :	•			
	(A)	Dispersion.		(B)	Correlation.	
	(C)	Time series analysis.		(D)	Hypothesis Testing.	
46.	The va	riance of binomial distribu	ıtión is :			
	(A)	npq.		(B)	np.	
	(C)	pq.		(D)	\sqrt{npq} .	
47.	The pr	obability of rejecting a tru	e hypothe	sis is		
	(A)	Type-I error.		(B)	Type-II error.	
	(C)	Standard error.		(D)	Probable error.	
48.	Geome	tric Mean gives more weig	tht to:	•		
	(A)	Smaller items.		(B)	Larger items.	
· · ·	(C)	Both (A) and (B).		(D)	None of these.	
49.	The ra	te at which the RBI accept	ts funds fi	om o	ther banks is called :	
	(A)	Repo rate.	*	(B)	Reverse Repo rate.	
	(C)	Bank rate.	•	(D)	Cash reserve ratio.	
50.			_		variables has been computed and denominator in F test p	A STATE OF THE STA
	(A)	4 and 21 respectively.		(B)	4 and 20 réspectively.	
	(C)	3 and 20 respectively.	· •	(D)	None of these	
<u>.</u>				•		$(50 \times 1 = 50 \text{ marks})$

Part B

Answer any ten questions: Each question carries 5 marks.

- 51. Distinguish between Research Methodology and Research Methods.
- 52. Discuss probability and non-probability sampling.
- 53. What is research design? Discuss the elements of research design for experimental studies.
- 54. State the various functional forms of regression model. Which, functional form of regression model would you like to use to estimate India's rate of growth of per capita income?
- 55. How can one test the precision and reliability of results in sampling theory?
- 56. What do you mean by hypothesis? Is it necessary to formulate hypothesis in every research study in social sciences?
- 57. How is random sampling procedure helpful in making unbiased estimation? Illustrate with the help of an example.
- 58. What is auto-correlation? How is it detected? What are the remedial measures to handle auto-correlation?
- 59. What is a non-parametric test?
- 60. Distinguish between Ratio scale and interval scale of measurement.
- 61. What do you understand by 'Sampling Frame'? List the various stages involved in planning and organising a survey.
- 62. Distinguish between Census and Sample Survey.
- 63. Distinguish between Purposive and Snowball Sampling.
- 64. What is Multicollinearity? How can you tackle this problem?

 $(10 \times 5 = 50 \text{ marks})$