

ANANDALAYA

PERIODIC TEST- 3

Class: XI

Subject: Economics M.M: 40

Date : 07- 01- 2025 Time : 1 Hour 30 mins

General Instructions:

- 1. This question paper contains two sections:
 - Section A Statistics for Economics

Section B – Micro Economics

- 2. This paper contains 10 Multiple Choice Questions of 1 mark each.
- 3. This paper contains 2 Short Answer Questions of 3 marks each to be answered in 60 to 80 words.
- 4. This paper contains 3 Short Answer Questions of 4 marks each to be answered in 80 to 100 words.
- 5. This paper contains 2 Long Answer Questions of 6 marks each to be answered in 100 to 150 words.

SECTION A: STATISTICS FOR ECONOMICS

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Size	10	12	14	16	18	20	22
Frequency	2	5	12	20	10	7	3
(A) 16	(H	3) 30		(C) 59		(D) 20	

- (A) 0.20 (B) 0 (C) 0.85 (D) -0.75
- 3. Arithmetic mean of 5, 7, 9, 15 and 20 is ______. (1)
 (A) 10 (B) 10.2 (C) 11.2 (D) 12
- 4. The second quartile is same as _____ of the series. (1)
 (A) mean (B) median (C) mode (D) first quartile
- 5. Calculate mode from the following data: (3)

 Marks 0-10 10-20 20-30 30-40 40-50 50-60

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6.	Draw	a scatter	diagram	to represe	nt the to	llowing	data and	l identify	the typ	be of corre	elation	(3)

	X	8	16	24	31	42	50		
	Y	70	58	50	32	26	12		

7. From the following data of the monthly profits of 100 shops, calculate the value of median: (4)

Profits (₹ in lakes) 0.10 10.20 20.30 30.40 40.50 50.60

Profits (₹ in lakhs)	0-10	10-20	20-30	30-40	40-50	50-60
No. of shops (Frequency)	12	18	27	20	17	6

8. In a poetry recitation competition, 10 participants were given the following marks by two (6) judges.

Judge 1	15	17	14	13	11	12	16	18	10	9
Judge 2	15	12	4	6	7	9	3	10	2	5

Calculate the coefficient of rank correlation.

No. of Students

between X and Y:

SECTION B: MICRO ECONOMICS

9.	9. If Total Variable Cost and Total Fixed Cost of producing 10 units are ₹ 500 & ₹ 200, the value of average cost would be								(1)
	(A) ₹ 50 (C) ₹ 20			`) ₹ 70) ₹ 80				
10.	When price falls v (A) AR curve is st (B) AR and MR c (C) MR curve is s (D) MR curve is h	teeper than M oincide teeper than A	IR curve						(1)
11.	Point of inflexion (A) slope of TP ch (C) slope of TR ch	nanges	point fro	(B	ere (B) Slope of AP changes (D) MP rises				
12.	Statement 1: MR can be negative but not AR. Statement 2: When MR is zero, TR is also zero. (A) Statement 1 is true and statement 2 is false (B) Statement 1 is false and statement 2 is true (C) Both statements 1 and 2 are true (D) Both statements 1 and 2 are false								(1)
13.	Suppose total revesold, marginal revesold, Greater than a (C) Less than aver	enue would b verage reven	be	(B				nmodity are	(1)
14.	. If MR is more than MC at a particular level of output, then producer will (A) reduce production (B) keep the production at current level (C) stop production (D) increase production							(1)	
15.									(4)
	Price (₹) Total Cost (₹)	24 26	24 50	24 72	24 92	24 115	24 139	24 165	
16.	(i) Complete the formula Units of La	ollowing tabl		erage Prod	uct (Units)	Marg	inal Produc	et (Units)	(3)
		()			(8		()	

Units of Labour (Units)	Average Product (Units)	Marginal Product (Units)
1	8	
2	10	
3		10
4	9	
5		4
6	7	2
7	6	0
8	5	

(ii) Identify Phase I (Increasing Returns to a Factor) and Phase III (Negative Returns to a Factor) from the above table.

17 Read the following text carefully.

In economics, understanding the short-run costs of production is essential for businesses aiming to optimize their operations and maximize profits. The short-run is a time frame in which at least one factor of production (e.g., capital) is fixed, while others (e.g., labor, raw materials) can vary. This distinction leads to specific cost structures that influence decision-making.

Applications in Business Decision-Making

- 1. **Break-Even Analysis:** Understanding fixed and variable costs helps businesses calculate the break-even point, where total revenue equals total costs.
- 2. **Pricing Strategy:** Firms use marginal cost to set competitive prices, especially in markets with marginal competition.
- 3. **Production Planning:** By analyzing cost structures, businesses can determine the most cost-effective production levels in the short run.

Short-run costs are a foundational concept in economics, highlighting the interplay between fixed and variable expenses. By analyzing these costs, businesses can make informed decisions to balance efficiency, profitability, and resource allocation. While the short-run offers limited flexibility due to fixed factors, a deep understanding of cost dynamics paves the way for long-term growth and competitiveness.

On the basis of the given text and common understanding, answer the following questions:

(i) Marginal cost is indicated by	·	(1)		
(A) a straight line parallel to X-axis	(B) a straight line parallel to Y axis			
(C) a U-shaped curve	(D) an inverse S-shaped curve			
(ii) 'As the output rises, the difference between total cost and total variable cost tends to fall.' Defend or refute the given statement with valid argument.				
(iii) Distinguish between Fixed cost and variable	e costs.	(3)		