



विद्या सर्वार्थ साधिका

ANANDALAYA
PERIODIC TEST- 3
Class : XI

Subject : Economics
Date : 06-01-2024

M.M : 40
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. There are 2 Short Answer Questions of 3 marks each to be answered in 60 to 80 words.
4. There are 3 Short Answer Questions of 4 marks each to be answered in 80 to 100 words.
5. There are 2 Long Answer Questions of 6 marks each to be answered in 100 to 150 words.

SECTION A: STATISTICS FOR ECONOMICS

1. Mode of the observations 2, 5, 8, 4, 3, 4, 4, 5, 2, 4, 4 is _____. (1)
(A) 2 (B) 3 (C) 4 (D) 5
2. From the set of statements given in Column I and Column II, choose the correct pair: (1)

Column I	Column II
a. Median	i. Positional value which divides the distribution into two equal parts.
b. Mode	ii. Most commonly used measure of central tendency.
c. Mean	iii. Value occurring most frequently in a set of observations.

- (A) a – i (B) b – ii (C) c – iii (D) None of the above

3. When $r = -1$, all the points in a scatter diagram would lie _____. (1)
(A) on a straight line directed from lower left to upper right
(B) on a downward sloping straight line directed from upper left to lower right
(C) in a u shaped curve
(D) on an upward rising straight line
4. Draw a scatter diagram representing perfect positive correlation. (1)
5. State any six properties of correlation coefficient. (3)
6. The frequency distribution of the number of persons and their respective incomes (in ₹) is given below. Calculate the median income. (3)

Income (in ₹)	100	200	300	400
Number of persons	2	4	10	4

7. From the following data, relating to marks of students in English, find the average marks. (4)

Marks	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80
Number of students	2	7	10	15	20	16	6	4

8. Calculate Spearman's rank correlation coefficient from the following data: (6)

X	40	50	60	60	80	50	70	60
Y	80	120	160	170	130	200	210	130

OR

Calculate Karl Pearson's coefficient of correlation from the following data:

X	10	12	15	23	20
Y	14	17	23	25	21

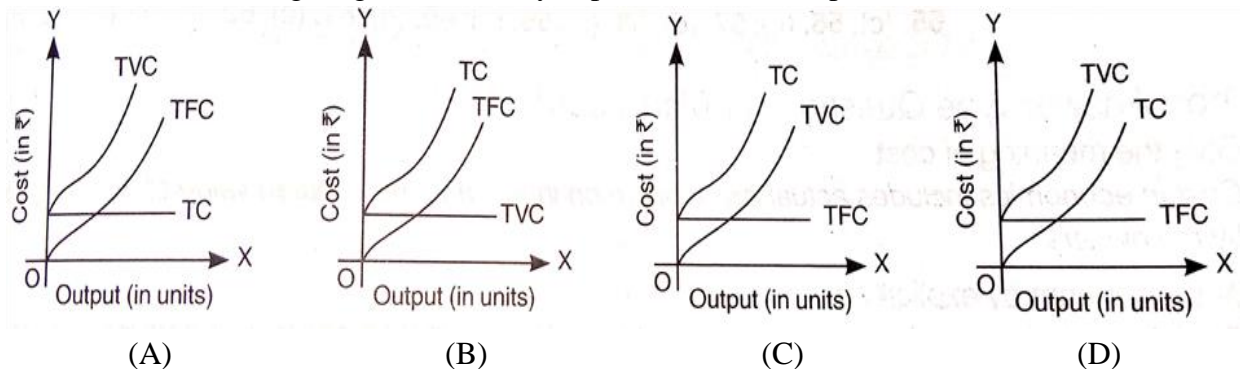
SECTION B: MICRO ECONOMICS

9. According to the Law of Variable Proportions, there are _____ phases. (1)
 (A) 4 (B) 3
 (C) 2 (D) 1
10. If a firm's production department data says that TVC for producing 8 units and 9 units of output is ₹ 2,500 and ₹ 3,000 respectively, marginal cost of 9th unit will be _____. (1)
 (A) ₹ 100 (B) ₹ 150 (C) ₹ 250 (D) ₹ 500
11. Variable factors refer to those factors of production which _____. (1)
 (A) can never be changed (B) can be changed in the long run
 (C) can be changed in the short run. (D) remain fixed
12. From the set of statements given in Column I and Column II, choose the correct pair of statements. (1)

Column I	Column II
a. Decrease in Supply	i. Rightward shift in supply curve.
b. Contraction in Supply	ii. Downward movement along the supply curve.
c. Increase in Supply	iii. Leftward shift in supply curve.
d. Expansion in Supply	iv. Quantity supplied rises due to decrease in price.

- (A) a – i (B) b – ii (C) c – iii (D) d - iv

13. Which of the following diagrams correctly depict the relationship between TC, TFC and TVC? (1)



14. Due to installation of machine with latest technology, the cost of production has decreased. It will lead to _____. (1)
 (A) Increase in Supply (B) Decrease in Supply
 (C) Expansion in Supply (D) Contraction in Supply

15. Explain the relationship between Total Product and Marginal Product using a diagram. (4)

16. Complete the following cost schedule: (4)

Quantity (units)	Total Cost (₹)	Total Variable Cost (₹)	Average Variable Cost (₹)
0	200	0	0
1	_____	_____	100
2	_____	180	_____
3	_____	_____	80
4	490	_____	_____

17 (a) If price of a commodity falls from ₹ 60 per unit to ₹ 58 per unit, its supply falls from 400 units to 300 units. Find out its elasticity of supply and comment on the same. (3)

(b) Suppose a farmer is producing potatoes and rice on a same piece of land. Explain with the help of a diagram, what will be the impact of increase in price of potatoes on supply curve of rice. (3)