

MATHEMATICAL ECONOMICS-I

Mid-Term Examination, Semester IV(2018-21)

* Required

Email address *

Your email

Gender *

- Female
- Male

Contact number *

Your answer

NAME *

Your answer

Roll NO. *

Your answer



University Roll No. *

Your answer

1. Given the value of A, find 2A *

2 points

$$\begin{bmatrix} 4 & 5 & 6 \\ 2 & 3 & 1 \\ 5 & 7 & 3 \end{bmatrix}$$

$$\begin{bmatrix} 4 & 5 & 6 \\ 2 & 3 & 1 \\ 5 & 7 & 3 \end{bmatrix}$$

$$\begin{bmatrix} 8 & 10 & 12 \\ 4 & 6 & 2 \\ 5 & 7 & 3 \end{bmatrix}$$

Option 1

Option 2

$$\begin{bmatrix} 4 & 2 & 5 \\ 5 & 3 & 7 \\ 6 & 1 & 3 \end{bmatrix}$$

None of these

Option 3



2. If A and B is given then A+B will be *

2 points

$$A = \begin{bmatrix} 2 & -2 \\ -2 & 2 \end{bmatrix} \quad B = \begin{bmatrix} 2 & 2 \\ 2 & 2 \end{bmatrix}$$

- 1. Column Matrix
- 2. Row Matrix
- 3. Scalar Matrix
- 4. Null Matrix

3. Tick out the Identity Matrix *

2 points

$$\begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$$

$$\begin{bmatrix} 0 & 1 \\ 1 & 0 \end{bmatrix}$$

A

B

$$\begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix}$$

$$\begin{bmatrix} 1 & 1 \\ 1 & 1 \end{bmatrix}$$

C

D



4. Find the value of x when *

2 points

$$\begin{bmatrix} 3x & 5 \\ -2x & -9 \end{bmatrix} = 34$$

- A 2
- B -2
- C 4
- D 17

5. The value of the given Determinant is 6 *

2 points

$$\begin{bmatrix} 5 & 7 \\ 2 & 4 \end{bmatrix}$$

- True
- False

6. If A={2,1,3}, B={2,5,7}, then A∩B is *

2 points

- A Null Set
- B Singleton Set
- C Universal Set
- D Infinite Set



7. The set of Letters used in the word 'ECONOMICS' *

2 points

- A { s,c,i,m,o,n,e}
- B { n,o,m,i,c,s}
- C {e,c,o,n,o,m,i,c,s}
- D None

8. The number of subsets of a set consisting of n elements is *

2 points

$$2^n$$

$$n^n$$

Option 1

Option 2

$$n^2$$

$$n^{2+1}$$

Option 3

Option 4



9. $A \cup \emptyset = A$ *

2 points

- True
- False

10. If $A = \{5, 9, 3, 7\}$ then *

2 points

- $3 \in A$
- $8 \notin A$
- $5 \in A$
- All of the above

11. If Demand and Supply functions of a commodity are $p=28-4x$ and $p=10+2x$. Find out the consumer surplus. *

2 points

- 20
- 18
- 12
- 16

12. If demand function is $p=35-2x-x^2$. find out the consumers surplus when $x=3$ and $p=20$. *

2 points

- 27
- 25
- 52
- 21



13. If we know marginal profit, We can find with the help of integration * 2 points

- Total cost function
- Marginal cost function
- Average cost function
- None of these

14. If the demand function for a commodity is $D=2-4p+p^2$, then find the elasticity of demand at $p=8$ * 2 points

- 32/20
- 32/19
- 1
- None

15. Which one is not constant cost * 2 points

- Interest
- Insurance Premium
- Cost of Raw Material
- Rent of factory



16. Tick the correct option *

2 points

- TFC=TVC+TC
- TC= TVC+TFC
- TC=TVC-TFC
- None

17. If $y= 10^x$, then dy/dx is *

2 points

- $10^x \log_{10}e$
- $10^x \log e10$
- 10^x
- X^{10}

18. Cross Elasticity of Demand is equal to *

2 points

- % change in quantity demanded of good X/ % change in price of Y
- % change in price of good X/ % change in price of Y
- % change in quantity demanded of good X/ % change in quantity demanded of good Y
- None

19. Marginal Cost is equal to *

2 points

- Differentiation of Total Revenue
- Differentiation of Total Cost
- Differentiation of Total Variable Cost



20. If $MR = 20 - 2x$, $MC = 4 + (x-4)^2$. Find the profit maximizing output *

2 points

- 6
- 36
- 0
- None

21. If $MR = 20 - 2x$, $MC = 4 + (x-4)^2$. Find the profit maximum profit. *

2 points

- 6
- 0
- 36
- 60

22. Find the total variable cost for $Q=12$ if marginal cost function is given by $MC=2-4Q+3Q^2$ *

2 points

- 1474
- 1464
- 1412
- 1421



23. Find integration of $1/x^3 + 1/x^2$ *

2 points

- $1/2x^2 - 1/x + c$
- $1/2x^2 - 1/x - c$
- $1/2x^2 + 1/x + c$
- None

24. Find out equilibrium price and quantity from the following demand and supply functions given in any market; $D=20-2P$, $S= 40-6P$ *

- $p=5, q=10$
- $p=10, q=5$
- $p=8, q=12$
- $p=12, q=8$

25. If in a equation $12x+17y=53$ the value of $y=1$ then the value of x will be * 2 points

- 36
- 24
- 3
- 12

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