Register Number

SECOND MID TERM TEST-NOVEMBER-2023
MATHEMATICS

Time Allowed : 1.30 Hours]   [Max. Marks : 45

Part - I

I. Choose the correct answer from the given four alternatives.   10x1=10

1. If $A = \begin{bmatrix} \lambda & 1 \\ -1 & -\lambda \end{bmatrix}$ then for what value of λ , $A^2 = 0$?

   (a) 0   (b) ± 1 (c) -1   (d) 1

2. If A is a square matrix, then which of the following is not symmetric?

   (a) $A + A^T$ (b) AA^T (c) $A^T A$ (d) $A - A^T$

3. If the points $(x, -2)$ $(5, 2)$ $(8, 8)$ are collinear, then x is equal to

   (a) -3   (b) 1/3   (c) 1   (d) 3

4. The value of $\begin{vmatrix} \cos\theta & \sin\theta \\ -\sin\theta & \cos\theta \end{vmatrix}$ is

   (a) 0   (b) $-\sin\theta$ (c) $\cos\theta$ (d) 1

5. If $\begin{vmatrix} x-1 & x & x-2 \\ 0 & x-2 & x-3 \\ 0 & 0 & x-3 \end{vmatrix} = 0$ then the value of x is

   (a) x = 1, 2, 3   (b) x = 1, -1, -2   (c) x = 0, 2, -3   (d) x = -1, -2, -3

6. If $|\overline{a}| = 13$, $|\overline{b}| = 5$ and $\overline{a} \cdot \overline{b} = 60°$ then the value of $|\overline{a} \times \overline{b}|$

   (a) 15   (b) 35   (c) 45   (d) 25

7. If $\overline{a}$ and $\overline{b}$ bowing same magnitude and angle between them is 60° and their scalar product is ½ then $|\overline{a}|$ is

   (a) 2   (b) 3   (c) 7   (d) 1

8. If $\overline{a} = \hat{i} + \hat{j} + \hat{k}$ $\overline{b} = 2\hat{i} + x\hat{j} + \hat{k}$, $\overline{c} = \hat{i} - \hat{j} + 4\hat{k}$ and $\overline{a} \cdot (\overline{b} \times \overline{c}) = 70$ then x is equal to

   (a) 5   (b) 7   (c) 26   (d) 10

9. $\underset{x \to \infty}{Lt} \dfrac{\sin x}{x} =$

   (a) 1   (b) 0   (c) ∞ (d) $-\infty$

10. $\underset{x \to 3}{Lt} [x] = $ ------------

   (a) 2   (b) 3   (c) No value   (d) 0

PART - II

II. Answer any four questions. Q.No.17 is compulsory question.   4X2=8

11. Simplify : $\sec\theta \begin{bmatrix} \sec\theta & \tan\theta \\ \tan\theta & \sec\theta \end{bmatrix} - \tan\theta \begin{bmatrix} \tan\theta & \sec\theta \\ \sec\theta & \tan\theta \end{bmatrix}$

12. Construct an $m \times n$ matrix $A = [a_{ij}]$ where a_{ij} is given by $a_{ij} = \dfrac{(i-2j)^2}{2}$ with $m = 2$ and $n = 3$.

13. Compute |A| using Sarrus rule if $A = \begin{bmatrix} 3 & 4 & 1 \\ 0 & -1 & 2 \\ 5 & -2 & 6 \end{bmatrix}$

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