

QUESTION BANK OF ENGINEERING MATHEMATICS 20SC01T

UNIT-1: MATRICES AND DETERMINANTS (SECTION-I)

I. 4 MARK QUESTIONS.

1. If $A = \begin{bmatrix} 4 & 5 \\ 1 & 2 \end{bmatrix}$ and $B = \begin{bmatrix} 0 & 6 \\ 1 & 3 \end{bmatrix}$, find the matrix $3A + 2B$.
2. If $A = \begin{bmatrix} 4 & 5 \\ 3 & 2 \end{bmatrix}$ and $B = \begin{bmatrix} 3 & 4 \\ 4 & 1 \end{bmatrix}$, find the matrix $3A - 2B$.
3. If $X = \begin{bmatrix} 2 & 3 \\ 1 & 4 \end{bmatrix}$ and $Y = \begin{bmatrix} 5 & 0 \\ 3 & 2 \end{bmatrix}$, then find $4X + 3Y$.
4. If $A = \begin{bmatrix} 2 & 1 \\ 3 & 4 \end{bmatrix}$ and $B = \begin{bmatrix} 1 & 4 \\ 2 & 3 \end{bmatrix}$, then find $2A + 3B$.
5. If $A = \begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}$ and $B = \begin{bmatrix} 3 & 2 \\ 1 & 4 \end{bmatrix}$, then find $3A - B$.
6. If $\begin{bmatrix} 2 & 3 \\ x & y \end{bmatrix} + \begin{bmatrix} 1 & 0 \\ 2 & 1 \end{bmatrix} = \begin{bmatrix} 3 & 3 \\ 4 & 5 \end{bmatrix}$ find the value of x and y .
7. If $A = \begin{bmatrix} 3 & 2 \\ 2 & 0 \end{bmatrix}$ then find $A + A^T$ matrix.
8. If the matrix $A = \begin{bmatrix} x & 3 \\ 3 & x \end{bmatrix}$ is a singular matrix find the value of x .
9. If $A = [1 \ 2 \ 3]$ and $B = \begin{bmatrix} 3 & 1 \\ 2 & 4 \\ 1 & 0 \end{bmatrix}$, find AB matrix.

10. Define square and rectangular matrices.

II. 5 MARKS QUESTIONS

1. Solve the system of linear equations by applying Cramer's rule $3x + 2y = 8; 2x + 5y = 9$
2. Solve the equations $x + y = 3; 2x + 3y = 8$ by Cramer's rule.
3. Solve the system equations $2x - y = 3; x + 2y = 4$ by determinant method.
4. Solve the system equations $2x + 3y = 5; x + 4y = 5$ by applying Cramer's rule.
5. If $A = \begin{bmatrix} 5 & -2 \\ 3 & 1 \end{bmatrix}$ verify that $A(\text{adj}A) = |A|I$ where $I = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$
6. If $A = \begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}$ and $B = \begin{bmatrix} 2 & 1 \\ 3 & 4 \end{bmatrix}$, find AB matrix and also find $(AB)^T$ matrix.
7. If $\begin{bmatrix} x & 2 \\ 3 & 4 \end{bmatrix} = \begin{bmatrix} 3 & 2 \\ 0 & x \end{bmatrix}$ find the value of x .

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Wolfgang Guggemos



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