

# 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  $x$ .

# Engineering Mathematics 1 Solved Question With Answer

**Peipei Pang**



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