QUESTION BANK OF ENGINEERING MATHEMATICS 20SC01T

UNIT-1: MATRICES AND DETRMINANTS (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 $A = \begin{bmatrix} 1 & 2 & 3 \end{bmatrix}$ 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 $A(adjA) = |A|I$ 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 $\begin{vmatrix} x & 2 \\ 3 & 4 \end{vmatrix} = \begin{vmatrix} 3 & 2 \\ 0 & x \end{vmatrix}$ find the value of x.

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Table of Contents Engineering Mathematics 1 Solved Question With Answer

1. Understanding the eBook Engineering Mathematics 1 Solved Question With Answer
    - The Rise of Digital Reading Engineering Mathematics 1 Solved Question With Answer
    - Advantages of eBooks Over Traditional Books
2. Identifying Engineering Mathematics 1 Solved Question With Answer
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Engineering Mathematics 1 Solved Question With Answer
    - User-Friendly Interface
4. Exploring eBook Recommendations from Engineering Mathematics 1 Solved Question With Answer
    - Personalized Recommendations
    - Engineering Mathematics 1 Solved Question With Answer User Reviews and Ratings
    - Engineering Mathematics 1 Solved Question With Answer and Bestseller Lists

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