

# 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  $A = \begin{bmatrix} 1 & 2 & 3 \end{bmatrix}$  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  $A(\text{adj}A) = |A|I$  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 Matrices Questions And Answers

**WJ Hussar**



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## **Table of Contents Engineering Mathematics Matrices Questions And Answers**

1. Understanding the eBook Engineering Mathematics Matrices Questions And Answers
  - The Rise of Digital Reading Engineering Mathematics Matrices Questions And Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Engineering Mathematics Matrices Questions And Answers
  - 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 Matrices Questions And Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Engineering Mathematics Matrices Questions And Answers
  - Personalized Recommendations
  - Engineering Mathematics Matrices Questions And Answers User Reviews and Ratings
  - Engineering Mathematics Matrices Questions And Answers and Bestseller Lists
5. Accessing Engineering Mathematics Matrices Questions And Answers Free and Paid eBooks
  - Engineering Mathematics Matrices Questions And Answers Public Domain eBooks
  - Engineering Mathematics Matrices Questions And Answers eBook Subscription Services
  - Engineering Mathematics Matrices Questions And Answers Budget-Friendly Options
6. Navigating Engineering Mathematics Matrices Questions And Answers eBook Formats

- ePub, PDF, MOBI, and More
  - Engineering Mathematics Matrices Questions And Answers Compatibility with Devices
  - Engineering Mathematics Matrices Questions And Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Engineering Mathematics Matrices Questions And Answers
    - Highlighting and Note-Taking Engineering Mathematics Matrices Questions And Answers
    - Interactive Elements Engineering Mathematics Matrices Questions And Answers
  8. Staying Engaged with Engineering Mathematics Matrices Questions And Answers
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Engineering Mathematics Matrices Questions And Answers
  9. Balancing eBooks and Physical Books Engineering Mathematics Matrices Questions And Answers
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Engineering Mathematics Matrices Questions And Answers
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Engineering Mathematics Matrices Questions And Answers
    - Setting Reading Goals Engineering Mathematics Matrices Questions And Answers
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Engineering Mathematics Matrices Questions And Answers
    - Fact-Checking eBook Content of Engineering Mathematics Matrices Questions And Answers
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
  14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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