

MARKS

- k) Find the distance between two parallel lines 3x + 2y 6 = 0 and 3x + 2y 12 = 0.
- I) Find the centre and radius of the circle  $2x^2 + 2y^2 + 5x 6y + 3 = 0$ .
- m) Expand  $(x + 3y)^4$  using binomial theorem.
- n) If  $\sin \theta = \frac{3}{5}$  and  $\cos \theta = \frac{4}{5}$  find  $\tan \theta$ ,  $\cot \theta$ .
- 2. Attempt any four of the following :
  - a) Resolve into partial fraction  $\frac{x-5}{x^3+x^2-5x}$ .
  - b) Resolve into partial fraction  $\frac{13x+19}{(x+3)(x-2)(x+1)}$
  - c) Find 7<sup>th</sup> term of  $\left(\frac{x}{y} \frac{y}{x}\right)^{10}$ . (-1.5) 53 x 8 x 10 (b) the first of a subsection of the subsection
  - d) The currents I<sub>1</sub>, I<sub>2</sub> and I<sub>3</sub> in three loops gave the following equations. Find the values of I<sub>1</sub>, I<sub>2</sub>, I<sub>3</sub> using Cramer's rule

$$2l_1 - l_2 + l_3 = 0$$
  
 $4l_1 - l_3 = 2$   
 $2l_2 + l_3 = 2$ 

- e) Using Binomial Theorem, prove that  $(1+\sqrt{3})^4 + (1-\sqrt{3})^4 = 56$ .
- f) If  $\log \left( \frac{m+n}{3} \right) = \frac{1}{2} (\log m + \log n)$

Then show that  $\frac{m}{n} + \frac{n}{m} = 7$ .

3. Attempt any four of the following:

a) Find the adjoint of the matrix  $A = \begin{bmatrix} 1 & 2 & 3 \\ 1 & 3 & 5 \\ 1 & 5 & 12 \end{bmatrix}$  costs a localizating of the matrix  $A = \begin{bmatrix} 1 & 2 & 3 \\ 1 & 3 & 5 \\ 1 & 5 & 12 \end{bmatrix}$ 

b) If  $A = \begin{bmatrix} 2 & 5 & 6 \\ 0 & 1 & 2 \end{bmatrix}$ ,  $B = \begin{bmatrix} 6 & 1 \\ 0 & 4 \\ 5 & 7 \end{bmatrix}$  verify that (AB)' = B'A'.

16

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### **Table of Contents Mechanical 7th Sem Question Papers**

- 1. Understanding the eBook Mechanical 7th Sem Question Papers
  - The Rise of Digital Reading Mechanical 7th Sem Question Papers
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Mechanical 7th Sem Question Papers
  - 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 Mechanical 7th Sem Question Papers
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Mechanical 7th Sem Question Papers
  - Personalized Recommendations
  - Mechanical 7th Sem Question Papers User Reviews and Ratings
  - Mechanical 7th Sem Question Papers and Bestseller Lists
- 5. Accessing Mechanical 7th Sem Question Papers Free and Paid eBooks
  - Mechanical 7th Sem Question Papers Public Domain eBooks

- Mechanical 7th Sem Question Papers eBook Subscription Services
- Mechanical 7th Sem Question Papers Budget-Friendly Options
- 6. Navigating Mechanical 7th Sem Question Papers eBook Formats
  - o ePub, PDF, MOBI, and More
  - Mechanical 7th Sem Question Papers Compatibility with Devices
  - Mechanical 7th Sem Question Papers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - o Adjustable Fonts and Text Sizes of Mechanical 7th Sem Question Papers
  - Highlighting and Note-Taking Mechanical 7th Sem Question Papers
  - Interactive Elements Mechanical 7th Sem Question Papers
- 8. Staying Engaged with Mechanical 7th Sem Question Papers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Mechanical 7th Sem Question Papers
- 9. Balancing eBooks and Physical Books Mechanical 7th Sem Question Papers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Mechanical 7th Sem Question Papers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Mechanical 7th Sem Question Papers
  - Setting Reading Goals Mechanical 7th Sem Question Papers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mechanical 7th Sem Question Papers
  - Fact-Checking eBook Content of Mechanical 7th Sem Question Papers
  - 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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