

- N.B. :** (1) All questions are compulsory.
 (2) Attempt any three sub-questions from each Question Nos. 2 to 7.
 (3) Figures to the right indicate full marks.

1. Attempt any one :—

10

- (a) If the matrix $A = \begin{bmatrix} 8 & -6 & 2 \\ -6 & 7 & -4 \\ 2 & -4 & 3 \end{bmatrix}$ is similar to a diagonal matrix.

Find the diagonal matrix.

- (b) If $u = \operatorname{cosec}^{-1} \sqrt{\frac{x^{\frac{1}{2}} + y^{\frac{1}{2}}}{x^{\frac{1}{3}} + y^{\frac{1}{3}}}}$,

show that $x^2 \frac{\partial^2 u}{\partial x^2} + 2xy \frac{\partial^2 u}{\partial x \partial y} + y^2 \frac{\partial^2 u}{\partial y^2} = \frac{\tan u}{12} \left(\frac{13}{12} + \frac{\tan^2 u}{12} \right)$.

2. Attempt any three :—

15

- (a) Under what condition the rank of the matrix $A = \begin{bmatrix} 2 & 4 & 2 \\ 2 & 1 & 2 \\ 1 & 0 & x \end{bmatrix}$ is 3?

- (b) If $A = \begin{bmatrix} 3 & -3 & 4 \\ 2 & -3 & 4 \\ 0 & -1 & 1 \end{bmatrix}$ prove that $A^3 = A^{-1}$.

- (c) Find the solution of system. $x_1 - x_2 + x_3 = 0$
 $x_1 + 2x_2 - x_3 = 0$
 $2x_1 + x_2 + x_3 = 0$

- (d) Reduce the following matrix to the normal form and hence find

its rank $\begin{bmatrix} 0 & 1 & -3 & -1 \\ 1 & 0 & 1 & 1 \\ 3 & 1 & 0 & 2 \\ 1 & 1 & -2 & 0 \end{bmatrix}$

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Table of Contents Applied Mathematics Question Paper In 1st Semester

1. Understanding the eBook Applied Mathematics Question Paper In 1st Semester
 - The Rise of Digital Reading Applied Mathematics Question Paper In 1st Semester
 - Advantages of eBooks Over Traditional Books
2. Identifying Applied Mathematics Question Paper In 1st Semester
 - 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 Applied Mathematics Question Paper In 1st Semester
 - User-Friendly Interface
4. Exploring eBook Recommendations from Applied Mathematics Question Paper In 1st Semester

- Personalized Recommendations
 - Applied Mathematics Question Paper In 1st Semester User Reviews and Ratings
 - Applied Mathematics Question Paper In 1st Semester and Bestseller Lists
5. Accessing Applied Mathematics Question Paper In 1st Semester Free and Paid eBooks
 - Applied Mathematics Question Paper In 1st Semester Public Domain eBooks
 - Applied Mathematics Question Paper In 1st Semester eBook Subscription Services
 - Applied Mathematics Question Paper In 1st Semester Budget-Friendly Options
 6. Navigating Applied Mathematics Question Paper In 1st Semester eBook Formats
 - ePub, PDF, MOBI, and More
 - Applied Mathematics Question Paper In 1st Semester Compatibility with Devices
 - Applied Mathematics Question Paper In 1st Semester Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Applied Mathematics Question Paper In 1st Semester
 - Highlighting and Note-Taking Applied Mathematics Question Paper In 1st Semester
 - Interactive Elements Applied Mathematics Question Paper In 1st Semester
 8. Staying Engaged with Applied Mathematics Question Paper In 1st Semester
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Applied Mathematics Question Paper In 1st Semester
 9. Balancing eBooks and Physical Books Applied Mathematics Question Paper In 1st Semester
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Applied Mathematics Question Paper In 1st Semester
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Applied Mathematics Question Paper In 1st Semester
 - Setting Reading Goals Applied Mathematics Question Paper In 1st Semester
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Applied Mathematics Question Paper In 1st Semester

- Fact-Checking eBook Content of Applied Mathematics Question Paper In 1st Semester
 - 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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