

- N.B. :** (1) All questions are compulsory.
(2) Figures to the right indicate full marks.

Q.1] Attempt any one:

a) Find inverse of given matrices, using adjoint method.

$$\begin{bmatrix} 2 & 1 & 3 \\ 3 & 1 & 2 \\ 1 & 2 & 3 \end{bmatrix}$$

b) Solve: $(1-x^2)\frac{dy}{dx} + 2xy = x\sqrt{1-x^2}$

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Q.2] Attempt any three:

a) Show that given matrix is Hermitian and iA is skew Hermitian matrix.

$$\begin{bmatrix} 2 & 3+2i & -4 \\ 3-2i & 5 & 6i \\ -4 & -6i & 3 \end{bmatrix}$$

b) Show that given matrix is unitary and hence find A^{-1} .

$$\frac{1}{2} \begin{bmatrix} \sqrt{2} & -i\sqrt{2} & 0 \\ i\sqrt{2} & -\sqrt{2} & 0 \\ 0 & 0 & 2 \end{bmatrix}$$

c) Given that $A = \begin{bmatrix} 1 & -1 \\ 2 & 3 \end{bmatrix}$ show that $A^2 - 4A + 5I = 0$.

d) Reduce the given matrices in normal form and hence find 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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Q.3] Attempt any three:

a) Check whether given vectors are linearly dependent or independent set.

$$X_1 = (1, 2, 3)^T, X_2 = (3, -2, 1)^T, X_3 = (1, -6, 5)^T$$

b) Find inner product of the given vectors.

$$a = (1+i, 2-3i, 5+2i)^T, b = (2-i, 3+i, i)^T$$

c) Verify Cayley-Hamilton theorem.

$$\begin{bmatrix} 7 & 2 & -2 \\ -6 & -1 & 2 \\ 6 & 2 & -1 \end{bmatrix}$$

d) Diagonalize the given matrix. Find the modal matrix P.

$$\begin{bmatrix} 5 & 4 \\ 1 & 2 \end{bmatrix}$$

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Q.4] Attempt any three:

a) Find the volume of the parallelepiped whose edges are represented by the vector $A=2i-3j+4k$, $B=i+2j-k$, $C=3i-j+2k$.

b) If $R = a \cos t + a \sin t + at \tan t$ Find value of $\left. \frac{dR}{dt} \right|_{t=\frac{\pi}{4}}$ and $\left. \frac{d^2R}{dt^2} \right|_{t=\frac{\pi}{4}}$

c) What is the directional derivative of $\phi = xy^2 + yz^2$ at the point $(2, -1, 1)$ in the direction of the normal to the surface $x \log z - y^2 = -4$ at $(-1, 2, 1)$

d) Find the angle between the tangent planes to the surface $x \log z = y^2 - 1$, $x^2y = 2-z$ at the point $(1, 1, 1)$.

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Table of Contents Fybsc Math1 Quesion Paper

1. Understanding the eBook Fybsc Math1 Quesion Paper
 - The Rise of Digital Reading Fybsc Math1 Quesion Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Fybsc Math1 Quesion Paper
 - 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 Fybsc Math1 Quesion Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Fybsc Math1 Quesion Paper
 - Personalized Recommendations
 - Fybsc Math1 Quesion Paper User Reviews and Ratings
 - Fybsc Math1 Quesion Paper and Bestseller Lists
5. Accessing Fybsc Math1 Quesion Paper Free and Paid eBooks
 - Fybsc Math1 Quesion Paper Public Domain eBooks
 - Fybsc Math1 Quesion Paper eBook Subscription Services
 - Fybsc Math1 Quesion Paper Budget-Friendly Options
6. Navigating Fybsc Math1 Quesion Paper eBook Formats

- ePub, PDF, MOBI, and More
- Fybsc Math1 Quesion Paper Compatibility with Devices
- Fybsc Math1 Quesion Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Fybsc Math1 Quesion Paper
 - Highlighting and Note-Taking Fybsc Math1 Quesion Paper
 - Interactive Elements Fybsc Math1 Quesion Paper
- 8. Staying Engaged with Fybsc Math1 Quesion Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Fybsc Math1 Quesion Paper
- 9. Balancing eBooks and Physical Books Fybsc Math1 Quesion Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Fybsc Math1 Quesion Paper
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Fybsc Math1 Quesion Paper
 - Setting Reading Goals Fybsc Math1 Quesion Paper
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Fybsc Math1 Quesion Paper
 - Fact-Checking eBook Content of Fybsc Math1 Quesion Paper
 - 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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