10

5

5

5

25

Con. 288-13.

(3 Hours)

TD-1082

Total Marks: 100

#### N.B.: (1) All questions are compulsory.

Figures to the right indicate full marks. (2)

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

Q.21 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<sup>-1</sup>

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

c) Given that  $A = \begin{bmatrix} \sqrt{2} & -i\sqrt{2} & 0 \\ i\sqrt{2} & -\sqrt{2} & 0 \\ 0 & 0 & 2 \end{bmatrix}$  show that  $A^2$ -4A+5I=0.5

d) Reduce the given matrices in normal form and hence find rank.

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

Q.31 Attempt any three:

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

$$X_1 = (1, 2, 3)^3, X_2 = (3, -2, 1)^7, X_3 = (1, -6, -5)T$$

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-Hemilton theorem.

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

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

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

Q.4) Attempt any three:

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

b) If R = a costi + a sinti + at tanαk Find value of 
$$\frac{dR}{dt} = \frac{d^2R}{dt^2}$$

c) What is the directional derivative of  $\phi = xy^2 + yz^3$  at the point (2, -1, 1) in the direction of the normal to the surface  $x \log z \cdot y^2 = -4$  at (-1, 2, 1)

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

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- 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
  - $\circ\,$  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
  - o Interactive Elements Fybsc Math1 Quesion Paper
- 8. Staying Engaged with Fybsc Math1 Quesion Paper
  - o 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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