



Total No. of Questions : 24

Total No. of Printed Pages : 3

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Part – III
MATHEMATICS
Paper – I (A)
 (English Version)

Time : 3 Hours

Max. Marks : 75

Note : This question paper consists of **THREE** Sections – A, B and C.

SECTION – A

(10×2=20)

I. Very short answer type questions :

(i) Answer **ALL** the questions.

(ii) **Each** question carries **TWO** marks.

1) If $A = \{-2, -1, 0, 1, 2\}$ and $f : A \rightarrow B$ is a surjection defined by $f(x) = x^2 + x + 1$ then find B .

2) Find the domain of the real valued function $f(x) = \log(x^2 - 4x + 3)$.

3) Define trace of matrix. Find the trace of A if $A = \begin{bmatrix} 1 & 2 & -\frac{1}{2} \\ 0 & -1 & 2 \\ -\frac{1}{2} & 2 & 1 \end{bmatrix}$.

4) Find the Rank of $\begin{bmatrix} -1 & -2 & -3 \\ 3 & 4 & 5 \\ 4 & 5 & 6 \end{bmatrix}$.

5) If the vectors $-3\vec{i} + 4\vec{j} + \lambda\vec{k}$ and $\mu\vec{i} + 8\vec{j} + 6\vec{k}$ are collinear vectors, then find λ and μ .

6) Find the vector equation of the line joining the points $2\vec{i} + \vec{j} + 3\vec{k}$ and $-4\vec{i} + 3\vec{j} - \vec{k}$.

7) If $\vec{a} = 2\vec{i} - 3\vec{j} + 5\vec{k}$, $\vec{b} = -\vec{i} + 4\vec{j} + 2\vec{k}$ then find $\vec{a} \times \vec{b}$ and unit vector perpendicular to both \vec{a} and \vec{b} .

8) Find the period of the function $\tan(x + 4x + 9x + \dots + n^2x)$ where n is any positive integer.

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J Ma



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Table of Contents Pst131j Previous Exam Paper Question

1. Understanding the eBook Pst131j Previous Exam Paper Question
 - The Rise of Digital Reading Pst131j Previous Exam Paper Question
 - Advantages of eBooks Over Traditional Books
2. Identifying Pst131j Previous Exam Paper Question
 - 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 Pst131j Previous Exam Paper Question
 - User-Friendly Interface
4. Exploring eBook Recommendations from Pst131j Previous Exam Paper Question
 - Personalized Recommendations
 - Pst131j Previous Exam Paper Question User Reviews and Ratings
 - Pst131j Previous Exam Paper Question and Bestseller Lists
5. Accessing Pst131j Previous Exam Paper Question Free and Paid eBooks

- Pst131j Previous Exam Paper Question Public Domain eBooks
- Pst131j Previous Exam Paper Question eBook Subscription Services
- Pst131j Previous Exam Paper Question Budget-Friendly Options
- 6. Navigating Pst131j Previous Exam Paper Question eBook Formats
 - ePub, PDF, MOBI, and More
 - Pst131j Previous Exam Paper Question Compatibility with Devices
 - Pst131j Previous Exam Paper Question Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Pst131j Previous Exam Paper Question
 - Highlighting and Note-Taking Pst131j Previous Exam Paper Question
 - Interactive Elements Pst131j Previous Exam Paper Question
- 8. Staying Engaged with Pst131j Previous Exam Paper Question
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Pst131j Previous Exam Paper Question
- 9. Balancing eBooks and Physical Books Pst131j Previous Exam Paper Question
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Pst131j Previous Exam Paper Question
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Pst131j Previous Exam Paper Question
 - Setting Reading Goals Pst131j Previous Exam Paper Question
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Pst131j Previous Exam Paper Question
 - Fact-Checking eBook Content of Pst131j Previous Exam Paper Question
 - 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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