

[5315] - 1

F.Y.B.Sc.

MATHEMATICS

MT - 101 : Algebra and Geometry
(2013 Pattern) (Paper - I)

Time : 3 Hours]

[Max. Marks : 80

Instructions to the candidates:

- 1) All questions are compulsory.
- 2) Figures to the right indicate full marks.

Q1) Attempt any eight of the following:

[16]

- a) State principle of strong induction.
- b) Define partition of a non-empty set. Write down any one partition of a set $S = \{2, 3, 4, 8\}$.
- c) Use remainder theorem to compute the remainder when $f(x) = x^4 - 3x^3 - 7x^2 - 2$ is divided by $g(x) = x - 3$.
- d) Find eigen vector of the matrix $\begin{bmatrix} 2 & 3 \\ 0 & 4 \end{bmatrix}$ corresponding to eigen value 4.
- e) Reduce the matrix $A = \begin{bmatrix} 2 & 3 & 4 \\ 3 & 1 & 2 \\ -1 & 2 & 2 \end{bmatrix}$ to echelon form. Hence find rank of A.
- f) Discuss the nature of the conic $5x^2 - 6xy + 5y^2 + 18x - 14y + 9 = 0$.
- g) Show that the lines $\frac{x+3}{2} = \frac{y+5}{3} = \frac{z-7}{-3}$ and $\frac{x+1}{4} = \frac{y+1}{4} = \frac{z+1}{-1}$ are coplanar.
- h) Find equation of the plane passing through the point (2,3,5) and perpendicular to the line whose d.r.s. are 3, -2, 6.
- i) Find centre and radius of the sphere $x^2 + y^2 + z^2 + 2x + 4y + 6z + 5 = 0$.
- j) Define cone and generator of cone.

P.T.O.

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Table of Contents Puna University Fybsc Maths Question Paper

1. Understanding the eBook Puna University Fybsc Maths Question Paper
 - The Rise of Digital Reading Puna University Fybsc Maths Question Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Puna University Fybsc Maths Question 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 Puna University Fybsc Maths Question Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Puna University Fybsc Maths Question Paper
 - Personalized Recommendations
 - Puna University Fybsc Maths Question Paper User Reviews and Ratings
 - Puna University Fybsc Maths Question Paper and Bestseller Lists

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