

# MATHEMATICS

2006

Time: 3 hours

Max. Marks: 100

Note: Answer ten questions in all – five questions from Section 'A' Three questions from Section 'B', One question from Section 'C' and the compulsory objective question No.1.

## OBJECTIVE (COMPULSORY)

- 1.(a) Fill in the following blanks with the correct answers: (05)
- (i) The \_\_\_\_\_ coordinate of every point on X-axis is Zero.
  - (ii) If  $A = \{a, b, c, d\}$ , then  $P(A)$  has \_\_\_\_\_ elements.
  - (iii)  $(7 - \sqrt{2})(7 + \sqrt{2}) = \text{_____}$ .
  - (iv) If  $\log_x 81 = 4$ , then  $x = \text{_____}$ .
  - (v)  $\sin \theta \cdot \sec \theta = \text{_____}$ .
- (b) Select the correct answer for each from the given brackets: 5
- (i)  $\tan 60^\circ = \text{_____}$   $\left( \frac{1}{\sqrt{3}}, 1, \sqrt{3} \right)$
  - (ii)  $x^4 + 64$  can be made a perfect square by adding \_\_\_\_\_.  
( $8x^2, 4x^2, 16x^2$ )
  - (iii) The sum of 5 observations is 125, Its mean = \_\_\_\_\_.  
(25, 50, 625)
  - (iv) The line which meets a circle at only one point is called a \_\_\_\_\_. (radius, tangent, diameter).
  - (v) An angle inscribed in a semi-circle is a/an \_\_\_\_\_ angle. (right, acute, obtuse)

## SECTION 'A'

- 2.(a) If  $U = \{x \mid x \in N \text{ and } x \leq 10\}$ ,  $A = \{2, 3, 5, 7\}$ ,  $B = \{2, 4, 6, 8, 10\}$ , verify that  $(A \cup B)^c = A^c \cap B^c$ . (05+05)
- (b) If  $A = \{a, b\}$ ,  $B = \{2, 3\}$  and  $C = \{3, 4\}$ , find the value of  $A \times (B \cup C)$
- 3.(a) Simplify:  $\left( \frac{x^a}{x^b} \right)^{a+b} \cdot \left( \frac{x^b}{x^c} \right)^{b+c} \div 4(x^c \cdot x^a)^{a+c}$  (05)
- (b) Find the value of  $x^3 - \frac{1}{x^3}$  when  $x - \frac{1}{x} = -4$  (05)
4. Factorise any Four of the following: (10)
- (i)  $ax^3 + ax^2 - bx^2 - bx - cx - c$
  - (ii)  $x^2y^2 - 16xy + 64$
  - (iii)  $x^2 - x - 2y + 8y^2$
  - (iv)  $x^4 + 64$
  - (v)  $x^3 - x^2 + 2$
  - (vi)  $27a^3 - 64b^3 - 1 - 36ab^2$
- 5.(a) If  $A = \begin{bmatrix} 6 & 2 \\ 4 & 3 \end{bmatrix}$ , find  $A^{-1}$  and verify that  $A \cdot A^{-1} = I$ . (05)
- (b) If  $x^2 + \frac{1}{x^2} = p = 2$  and  $x^2 - \frac{1}{x^2} + q = 3$ , then find the relation free from 'x' (05)
6. Find the solution set of the following equations graphically (find four ordered pairs for each equation.) (10)
- $3x - 2y = 7$

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**Liying Dong**



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## **Table of Contents Matric Exams Mathematics Question Paper 2014**

1. Understanding the eBook Matric Exams Mathematics Question Paper 2014
  - The Rise of Digital Reading Matric Exams Mathematics Question Paper 2014
  - Advantages of eBooks Over Traditional Books
2. Identifying Matric Exams Mathematics Question Paper 2014
  - 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 Matric Exams Mathematics Question Paper 2014
  - User-Friendly Interface
4. Exploring eBook Recommendations from Matric Exams Mathematics Question Paper 2014
  - Personalized Recommendations
  - Matric Exams Mathematics Question Paper 2014 User Reviews and Ratings
  - Matric Exams Mathematics Question Paper 2014 and Bestseller Lists
5. Accessing Matric Exams Mathematics Question Paper 2014 Free and Paid eBooks
  - Matric Exams Mathematics Question Paper 2014 Public Domain eBooks
  - Matric Exams Mathematics Question Paper 2014 eBook Subscription Services
  - Matric Exams Mathematics Question Paper 2014 Budget-Friendly Options
6. Navigating Matric Exams Mathematics Question Paper 2014 eBook Formats
  - ePub, PDF, MOBI, and More
  - Matric Exams Mathematics Question Paper 2014 Compatibility with Devices
  - Matric Exams Mathematics Question Paper 2014 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Matric Exams Mathematics Question Paper 2014
  - Highlighting and Note-Taking Matric Exams Mathematics Question Paper 2014
  - Interactive Elements Matric Exams Mathematics Question Paper 2014
8. Staying Engaged with Matric Exams Mathematics Question Paper 2014

- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Matric Exams Mathematics Question Paper 2014
9. Balancing eBooks and Physical Books Matric Exams Mathematics Question Paper 2014
- Benefits of a Digital Library
  - Creating a Diverse Reading Collection Matric Exams Mathematics Question Paper 2014
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Matric Exams Mathematics Question Paper 2014
- Setting Reading Goals Matric Exams Mathematics Question Paper 2014
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Matric Exams Mathematics Question Paper 2014
- Fact-Checking eBook Content of Matric Exams Mathematics Question Paper 2014
  - 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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