

# MATHEMATICS & STATISTICS

Time : 3 hrs.]

MARCH - 2013

[Marks : 80

## SECTION - I

**Q. 1. (A) Select and write the most appropriate answer from the given alternatives in each of the following sub-questions:** [6]

- (i) The principal solution of the equation  $\cot x = -\sqrt{3}$  is \_\_\_\_\_.  
(a)  $\frac{\pi}{6}$  (b)  $\frac{\pi}{3}$  (c)  $\frac{5\pi}{6}$  (d)  $-\frac{5\pi}{6}$  (2)
- (ii) If the vectors  $-3\hat{i} + 4\hat{j} - 2\hat{k}$ ,  $\hat{i} + 2\hat{k}$ ,  $\hat{i} - p\hat{j}$  are coplanar, then the value of  $p$  is \_\_\_\_\_.  
(a) -2 (b) 1 (c) -1 (d) 2 (2)
- (iii) If the line  $y = x + k$  touches the hyperbola  $9x^2 - 16y^2 = 144$ , then  $k =$  \_\_\_\_\_.  
(a) 7 (b) -7 (c)  $\pm\sqrt{7}$  (d)  $\pm\sqrt{19}$  (2)

**Q. 1. (B) Attempt any THREE of the following:** [6]

- (i) Write down the following statements in symbolic form :  
(a) A triangle is equilateral if and only if it is equiangular.  
(b) Price increases and demand falls. (2)
- (ii) If  $A = \begin{bmatrix} 2 & -2 \\ 4 & 3 \end{bmatrix}$  then find  $A^{-1}$  by adjoint method. (2)
- (iii) Find the separate equations of the lines represented by the equation  $3x^2 - 10xy - 8y^2 = 0$ . (2)
- (iv) Find the equation of the director circle of a circle  $x^2 + y^2 = 100$ .
- (v) Find the general solution of the equation  $4\cos^2 x = 1$ .

**Q. 2. (A) Attempt any TWO of the following:** [6]

- (i) Without using truth table show that  $p \leftrightarrow q = (p \wedge q) \vee (\sim p \wedge \sim q)$ . (3)
- (ii) If  $\theta$  is the measure of acute angle between the pair of lines given by  $ax^2 + 2hxy + by^2 = 0$ , then prove that,  $\tan \theta = \left| \frac{2\sqrt{h^2 - ab}}{a + b} \right|$ ,  $a + b \neq 0$ . (3)

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**Liyong Dong**



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### **Table of Contents Hsc Maths Past Papers**

1. Understanding the eBook Hsc Maths Past Papers
  - The Rise of Digital Reading Hsc Maths Past Papers
  - Advantages of eBooks Over Traditional Books
2. Identifying Hsc Maths Past Papers
  - 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 Hsc Maths Past Papers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Hsc Maths Past Papers
  - Personalized Recommendations

- Hsc Maths Past Papers User Reviews and Ratings
- Hsc Maths Past Papers and Bestseller Lists
- 5. Accessing Hsc Maths Past Papers Free and Paid eBooks
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  - Hsc Maths Past Papers Budget-Friendly Options
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  - Hsc Maths Past Papers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Hsc Maths Past Papers
  - Highlighting and Note-Taking Hsc Maths Past Papers
  - Interactive Elements Hsc Maths Past Papers
- 8. Staying Engaged with Hsc Maths Past Papers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Hsc Maths Past Papers
- 9. Balancing eBooks and Physical Books Hsc Maths Past Papers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Hsc Maths Past Papers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Hsc Maths Past Papers
  - Setting Reading Goals Hsc Maths Past Papers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Hsc Maths Past Papers
  - Fact-Checking eBook Content of Hsc Maths Past Papers

- 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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