

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 θ 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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Table of Contents Hsc Sample Question Papers 2013

1. Understanding the eBook Hsc Sample Question Papers 2013
 - The Rise of Digital Reading Hsc Sample Question Papers 2013
 - Advantages of eBooks Over Traditional Books
2. Identifying Hsc Sample Question Papers 2013
 - 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 Sample Question Papers 2013
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hsc Sample Question Papers 2013
 - Personalized Recommendations
 - Hsc Sample Question Papers 2013 User Reviews and Ratings
 - Hsc Sample Question Papers 2013 and Bestseller Lists
5. Accessing Hsc Sample Question Papers 2013 Free and Paid eBooks

- Hsc Sample Question Papers 2013 Public Domain eBooks
 - Hsc Sample Question Papers 2013 eBook Subscription Services
 - Hsc Sample Question Papers 2013 Budget-Friendly Options
6. Navigating Hsc Sample Question Papers 2013 eBook Formats
- ePub, PDF, MOBI, and More
 - Hsc Sample Question Papers 2013 Compatibility with Devices
 - Hsc Sample Question Papers 2013 Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Hsc Sample Question Papers 2013
 - Highlighting and Note-Taking Hsc Sample Question Papers 2013
 - Interactive Elements Hsc Sample Question Papers 2013
8. Staying Engaged with Hsc Sample Question Papers 2013
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hsc Sample Question Papers 2013
9. Balancing eBooks and Physical Books Hsc Sample Question Papers 2013
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hsc Sample Question Papers 2013
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Hsc Sample Question Papers 2013
- Setting Reading Goals Hsc Sample Question Papers 2013
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Hsc Sample Question Papers 2013
- Fact-Checking eBook Content of Hsc Sample Question Papers 2013
 - 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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