

# MATHEMATICS & STATISTICS

Time : 3 hrs.]

MARCH - 2014

[Marks : 80

## SECTION - I

**Q. 1.(A) Select and write the most appropriate answer from the given alternatives for each sub-question :**

[6]

(i) Which of the following represents direction cosines of the line ?

- (a)  $0, \frac{1}{\sqrt{2}}, \frac{1}{2}$  (b)  $0, \frac{-\sqrt{3}}{2}, \frac{1}{2}$  (c)  $0, \frac{\sqrt{3}}{2}, \frac{1}{2}$  (d)  $\frac{1}{2}, \frac{1}{2}, \frac{1}{2}$  (2)

(ii)  $A = \begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}$  and  $A(\text{adj } A) = KI$ , then the value of 'K' is \_\_\_\_\_.

- (a) 2 (b) -2 (c) 10 (d) -10 (2)

(iii) The general solution of the trigonometric equation  $\tan^2 \theta = 1$  is \_\_\_\_\_.

- (a)  $\theta = n\pi \pm \frac{\pi}{3}, n \in \mathbb{Z}$  (b)  $\theta = n\pi \pm \frac{\pi}{6}, n \in \mathbb{Z}$   
(c)  $\theta = n\pi \pm \frac{\pi}{4}, n \in \mathbb{Z}$  (d)  $\theta = n\pi, n \in \mathbb{Z}$  (2)

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

[6]

(i) If  $\vec{a}, \vec{b}, \vec{c}$  are the position vectors of the points A, B, C respectively and  $2\vec{a} + 3\vec{b} - 5\vec{c} = \vec{0}$ , then find the ratio in which the point C divides line segment AB.

(2)

(ii) The Cartesian equation of a line is  $\frac{x-2}{2} = \frac{y+4}{7} = \frac{z-5}{3}$ , find its vector equation.

(2)

(iii) Equation of a plane is  $\vec{r} \cdot (3\hat{i} - 4\hat{j} + 12\hat{k}) = 8$ . Find the length of the perpendicular from the origin to the plane.

(2)

(iv) Find the acute angle between the lines whose direction ratios are 5, 12, -13 and 3, -4, 5.

(2)

(v) Write the dual of the following statements :

- (i)  $(p \vee q) \wedge T$  (ii) Madhuri has curly hair and brown eyes.

(2)

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

[6]

(i) If the lines  $\frac{x-1}{2} = \frac{y+1}{3} = \frac{z-1}{4}$  and  $\frac{x-3}{1} = \frac{y-k}{2} = \frac{z}{1}$  intersect, then find the value of  $k$ .

(3)

(ii) Prove that three vectors  $\vec{a}, \vec{b}$  and  $\vec{c}$  are coplanar, if and only if, there exists a non-zero linear combination  $x\vec{a} + y\vec{b} + z\vec{c} = \vec{0}$ .

(3)

(iii) Using truth table prove that :  $\sim p \wedge q = (p \vee q) \wedge \sim p$

(3)

**Q. 2 (B) Attempt any TWO of the following :**

[8]

(i) In any  $\triangle ABC$ , with usual notations, prove that  $b^2 = c^2 + a^2 - 2ca \cos B$ .

(4)

(ii) Show that the equation  $x^2 - 6xy + 5y^2 + 10x - 14y + 9 = 0$  represents a pair of lines. Find the acute angle between them. Also find the point of intersection of the lines. (4)

# Mathematics March 2014 Question Paper N

**David Baud**



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## **Table of Contents Mathematics March 2014 Question Paper N**

1. Understanding the eBook Mathematics March 2014 Question Paper N
  - The Rise of Digital Reading Mathematics March 2014 Question Paper N
  - Advantages of eBooks Over Traditional Books
2. Identifying Mathematics March 2014 Question Paper N
  - 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 Mathematics March 2014 Question Paper N
  - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematics March 2014 Question Paper N
  - Personalized Recommendations
  - Mathematics March 2014 Question Paper N User Reviews and Ratings
  - Mathematics March 2014 Question Paper N and Bestseller Lists
5. Accessing Mathematics March 2014 Question Paper N Free and Paid eBooks
  - Mathematics March 2014 Question Paper N Public Domain eBooks
  - Mathematics March 2014 Question Paper N eBook Subscription Services
  - Mathematics March 2014 Question Paper N Budget-Friendly Options

6. Navigating Mathematics March 2014 Question Paper N eBook Formats
  - ePub, PDF, MOBI, and More
  - Mathematics March 2014 Question Paper N Compatibility with Devices
  - Mathematics March 2014 Question Paper N Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Mathematics March 2014 Question Paper N
  - Highlighting and Note-Taking Mathematics March 2014 Question Paper N
  - Interactive Elements Mathematics March 2014 Question Paper N
8. Staying Engaged with Mathematics March 2014 Question Paper N
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Mathematics March 2014 Question Paper N
9. Balancing eBooks and Physical Books Mathematics March 2014 Question Paper N
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Mathematics March 2014 Question Paper N
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Mathematics March 2014 Question Paper N
  - Setting Reading Goals Mathematics March 2014 Question Paper N
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mathematics March 2014 Question Paper N
  - Fact-Checking eBook Content of Mathematics March 2014 Question Paper N
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

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web identify and describe properties of matter including flexibility strength transparency hardness water resistance size color weight and texture identify and describe three phases of matter solid liquid and gas identify and describe the particles that make up a solid liquid and gas ie particles are close together in a solid

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