

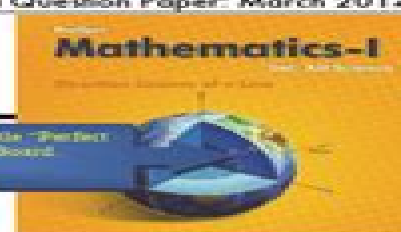
# BOARD QUESTION PAPER: MARCH 2014

## MATHEMATICS – I (12<sup>th</sup> Sci., HSC, Maharashtra)

**Notes:**

- All questions are compulsory.
- Figures to the right indicate full marks.
- Graph of L.P.P. should be drawn on graph paper only.
- Answers to both sections must be written in one answer book.
- Answer to every new question must be written on a new page.

This question paper is an extract from our e-note "Perfect Mathematics - I" for 12<sup>th</sup> Sci. Students, MDS Board.  
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**SECTION – I**

Q.1. (A) Select and write the correct answer from the given alternatives in each of the following:

(6) [12]

- Which of the following represents direction cosines of the line?  
 (A)  $0, \frac{1}{\sqrt{2}}, \frac{1}{2}$  (B)  $0, \frac{-\sqrt{3}}{2}, \frac{1}{\sqrt{2}}$   
 (C)  $0, \frac{\sqrt{3}}{2}, \frac{1}{2}$  (D)  $\frac{1}{2}, \frac{1}{2}, \frac{1}{2}$
- $A = \begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}$  and  $A(\text{adj } A) = KI$ , then the value of 'K' is \_\_\_\_\_  
 (A) 2 (B) -2  
 (C) 10 (D) -10
- 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)  $\theta = n\pi, n \in \mathbb{Z}$

(B) Attempt any THREE of the following:

(6)

- 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 the line segment AB.
- The cartesian equation of a line is  $\frac{x-6}{2} = \frac{y+4}{7} = \frac{z-5}{3}$ , find its vector equation.
- 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.
- Find the acute angle between the lines whose direction ratios are 5, 12, -13 and 3, -4, 5.
- Write the dual of the following statements:  
 (1)  $(p \vee q) \wedge \bar{r}$

# Maths 2014 Predicted Papers

**Jessica S. Horst, Carmel Houston-Price**

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the authors' names.

## **Maths 2014 Predicted Papers:**

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