# MATHEMATICS & STATISTICS

Time: 3 hrs.l

OCTOBER - 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) If A = {2, 3, 4, 5, 6}, then which of the following is 'not' true?
    - (a)  $\exists x \in A$  such that x + 3 = 8

(b)  $\exists x \in A$  such that x + 2 < 5

(c)  $\exists x \in A$  such that x + 2 < 9

- (d)  $\forall x \in A$  such that  $x + 6 \ge 9$
- (2)
- (ii) If 2x + y = 0 is one of the lines represented by  $3x^2 + kxy + 2y^2 = 0$ , then the value of k is
  - (a)  $\frac{1}{2}$

(b)  $\frac{11}{2}$ 

(c)  $\frac{5}{2}$ 

- (d)  $\frac{-11}{2}$
- (iii) If a line is inclined at 60° and 30° with the X- and Y-axes respectively, then the angle which it makes with Z-axis is
  - (a) 0

(2)

(2)

[6]

- Q. 1. (B) Attempt any THREE of the following:
  - (i) If  $A = \begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}$  and AX = I, then find X by elementary transformation. (2)
  - (ii) With usual notations, in ΔABC, prove that a(bcosC-ccosB) = b<sup>2</sup>-c<sup>2</sup>. (2)
- (iii) Show that the equation of a tangent to the circle  $x^2 + y^2 = a^2$  at the point  $P(x_1, y_1)$  on its axis is  $xx_1 + yy_1 = a^2$ . (2)
- (iv) Find k, if the line 2x 3y + k = 0 touches the ellipse  $5x^2 + 9y^2 = 45$ . (2)
- (v) Find the co-ordinates of the point, which divides the line segment joining the points A(2, -6, 8) and B(-1, 3, -4), externally in the ratio 1:3. (2)
- Q. 2. (A) Attempt any TWO of the following:
  - [6] (i) Using truth table, prove that ~ p ∧ q = (p ∨ q) ∧ ~ p. (3)
  - (ii) Find the values of p and q, if the following equation represents a pair of perpendicular lines:  $px^2 - 8xy + 3y^2 + 14x + 2y + a = 0$ . (3)
  - (iii) Find the equations of tangents to the parabola y<sup>2</sup> = 12x from the point (2, 5).

# October 2013 Hscmaths Question Paper

Siddappa N.Byrareddy

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