

MATHEMATICS & STATISTICS

Time : 3 hrs.]

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 $x + 6 \geq 9$

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

(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

(b) $\frac{\pi}{4}$

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

(d) $\frac{\pi}{6}$

(2)

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

[6]

(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 $a(b \cos C - c \cos B) = b^2 - c^2$.

(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 $\sim p \wedge q = (p \vee q) \wedge \sim p$.

(3)

(ii) Find the values of p and q , if the following equation represents a pair of perpendicular lines : $px^2 - 8xy + 3y^2 + 14x + 2y + q = 0$.

(3)

(iii) Find the equations of tangents to the parabola $y^2 = 12x$ from the point $(2, 5)$.

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