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) $\theta = n\pi \pm \frac{\pi}{3}, n \in Z$ (b) $\theta = n\pi \pm \frac{\pi}{6}, n \in Z$

(c) $\theta = n\pi \pm \frac{\pi}{4}, n \in Z$ (d) $\theta = n\pi, n \in Z$ (2)

Q. 1 (B) Attempt any THREE of the following : [6]

(i) If $\bar{a}, \bar{b}, \bar{c}$ are the position vectors of the points A, B, C respectively and $2\bar{a} + 3\bar{b} - 5\bar{c} = 0$, 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 $\bar{r} \cdot (3\hat{i} - 4\hat{j} + 12\hat{k}) = 8$. 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 $\bar{a}, \bar{b}$ and $\bar{c}$ are coplanar, if and only if, there exists a non-zero linear combination $x\bar{a} + y\bar{b} + z\bar{c} = 0$. (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 ΔABC, 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)

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