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) $0, \dfrac{1}{\sqrt{2}}, \dfrac{1}{2}$　　　(b) $0, \dfrac{-\sqrt{3}}{2}, \dfrac{1}{2}$　　　(c) $0, \dfrac{\sqrt{3}}{2}, \dfrac{1}{2}$　　　(d) $\dfrac{1}{2}, \dfrac{1}{2}, \dfrac{1}{2}$　　**(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) $\theta = n\pi \pm \dfrac{\pi}{3}, \ n \in Z$　　　　　　(b) $\theta = n\pi \pm \dfrac{\pi}{6}, \ n \in Z$

(c) $\theta = n\pi \pm \dfrac{\pi}{4}, \ n \in Z$　　　　　　(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 $\dfrac{x-2}{2} = \dfrac{y+4}{7} = \dfrac{z-5}{3}$, find its
vector equation. **(2)**

(iii) Equation of a plane is $\bar{r} \cdot \left(3\hat{i} - 4\hat{j} + 12\hat{k}\right) = 8$. 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) $(p \lor q) \land T$　　　　(ii) Madhuri has curly hair and brown eyes. **(2)**

Q. 2 (A) Attempt any TWO of the following : **[6]**

(i) If the lines $\dfrac{x-1}{2} = \dfrac{y+1}{3} = \dfrac{z-1}{4}$ and $\dfrac{x-3}{1} = \dfrac{y-k}{2} = \dfrac{z}{1}$ 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 $x\,a + y\,b + z\,c = \bar{0}$. **(3)**

(iii) Using truth table prove that : $\sim p \land q = (p \lor q) \land \sim p$ **(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)**

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