MATHEMATICS & STATISTICS

Time : 3 hrs.]　　　　　　　　　　　　MARCH – 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) The principal solution of the equation $\cot x = -\sqrt{3}$ is _____.

(a) $\dfrac{\pi}{6}$ 　　　　(b) $\dfrac{\pi}{3}$ 　　　　(c) $\dfrac{5\pi}{6}$ 　　　　(d) $-\dfrac{5\pi}{6}$ 　　　(2)

(ii) If the vectors $-3\hat{i} + 4\hat{j} - 2\hat{k}$, $\hat{i} + 2\hat{k}$, $\hat{i} - p\hat{j}$ are coplanar, than the value of p is ___.

(a) -2 　　　　(b) 1 　　　　(c) -1 　　　　(d) 2 　　　(2)

(iii) If the line $y = x + k$ touches the hyperbola $9x^2 - 16y^2 = 144$, then $k =$ _____.

(a) 7 　　　　(b) -7 　　　　(c) $\pm\sqrt{7}$ 　　　　(d) $\pm\sqrt{19}$ 　　　(2)

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

(i) Write down the following statements in symbolic form :

　(a) A triangle is equilateral if and only if it is equiangular.

　(b) Price increases and demand falls. 　　　(2)

(ii) If $A = \begin{bmatrix} 2 & -2 \\ 4 & 3 \end{bmatrix}$ then find A^{-1} by adjoint method. 　　　(2)

(iii) Find the separate equations of the lines represented by the equation $3x^2 - 10xy - 8y^2 = 0$. 　　　(2)

(iv) Find the equation of the director circle of a circle $x^2 + y^2 = 100$.

(v) Find the general solution of the equation $4\cos^2 x = 1$.

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

(i) Without using truth table show that $p \leftrightarrow q \equiv (p \wedge q) \vee (\sim p \wedge \sim q)$. 　　　(3)

(ii) If θ is the measure of acute angle between the pair of lines given by $ax^2 + 2hxy + by^2 = 0$, then prove that, $\tan\theta = \left| \dfrac{2\sqrt{h^2 - ab}}{a + b} \right|$, $a + b \neq 0$. 　　　(3)

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Huangqi Zhang

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