

# 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)  $\frac{\pi}{6}$  (b)  $\frac{\pi}{3}$  (c)  $\frac{5\pi}{6}$  (d)  $-\frac{5\pi}{6}$  (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, then 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  $p \leftrightarrow q = (p \wedge q) \vee (\sim p \wedge \sim q)$ . (3)
- (ii) If  $\theta$  is the measure of acute angle between the pair of lines given by  $ax^2 + 2hxy + by^2 = 0$ , then prove that,  $\tan \theta = \left| \frac{2\sqrt{h^2 - ab}}{a + b} \right|$ ,  $a + b \neq 0$ . (3)

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**Yi-Tong Ma**



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