MATHEMATICS & STATISTICS (COMMERCE)

Time : 3 hrs.]   OCTOBER – 2014   [Marks : 80

SECTION – I

Q.1. Attempt any SIX of the following : (2 Marks each)   [12]

(i) Write the following statements in symbolic forms :

(a) Either 49 is a perfect square or 39 is divisible by 11.

(b) It is not true that if 'i' is a real number, then '2' is an even prime number.   (2)

(ii) If $A = \begin{bmatrix} 1 & 2 & 3 \\ 2 & k & 2 \\ 5 & 7 & 3 \end{bmatrix}$ is a singular matrix, then find the value of 'k'.   (2)

(iii) If $A = \begin{bmatrix} 7 & 1 \\ 2 & 5 \end{bmatrix}$ and $B = \begin{bmatrix} 1 & 2 \\ 3 & -1 \end{bmatrix}$, then verify that $|AB| = |A| \cdot |B|$ (2)

(iv) Discuss the continuity of the function at the point given. If the function is discontinuous then remove the discontinuity.

$$f(x) = \frac{\sin^2 5x}{x^2}, \quad \text{for } x \neq 0$$

$$= 5 \quad , \quad \text{for } x = 0, \text{ at } x = 0$$ (2)

(v) Find the value of x for which the function

$$f(x) = x^3 - 3x^2 - 9x + 25 \text{ is increasing.}$$ (2)

(vi) Differentiate : $\tan^{-1}(\cot 2x)$ w.r.t. x.   (2)

(vii) Discuss the continuity of the function

$$f(x) = \frac{\left(3 - \sqrt{2x + 7}\right)}{x - 1}, \quad \text{for } x \neq 1$$

$$= \frac{1}{3}, \quad \text{for } x = 1, \text{ at } x = 1$$ (2)

(viii) Evaluate : $\int e^x \left[\dfrac{x + 3}{(x + 4)^2} \right] dx$ (2)

Q. 2.(A) Attempt any TWO of the following: (6)[14]

(i) Without using the truth table, show that

$$p \wedge \left[(\sim p \vee q) \vee \sim q \right] = p$$ (3)

(ii) If $y = \tan^{-1} \left[\dfrac{\cos 2x - \sin 2x}{\sin 2x + \cos 2x} \right]$ then find $\dfrac{dy}{dx}$.   (3)

(iii) Evaluate : $\int \dfrac{\tan x}{\sec x + \tan x} dx$ (3)

Q. 2.(B) Attempt any TWO of the following: [8]

(i) If the function

$$f(x) = x^2 + ax + b; \quad x < 2$$

$$= 3x + 2, \quad 2 \leq x \leq 4$$

$$= 2ax + 5b, \quad 4 < x$$

is continuous at $x = 2$ and $x = 4$, then find the values of a and b.   (4)

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KJ Lindholm-Leary

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Table of Contents Hsc 2014 October Board Math Paper Solution

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