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

$$f(x) \;=\; x^3 - 3x^2 - 9x + 25 \quad \text{is increasing.}$$ (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 : $\displaystyle\int e^x \left[\frac{x + 3}{(x + 4)^2} \right] dx$ (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 : $\displaystyle\int \frac{\tan x}{\sec x + \tan x} dx$ (3)

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

  (i)   If the function

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

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

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

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

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James Coroneos

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