

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.

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

(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

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

(2)

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

(2)

Q. 2.(A) Attempt any TWO of the following:

(6)[14]

(i) Without using the truth table, show that

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

(3)

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

(3)

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

(3)

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

[8]

(i) If the function

$$f(x) = \begin{cases} x^2 + ax + b; & x < 2 \\ 3x + 2, & 2 \leq x \leq 4 \\ 2ax + 5b, & 4 < x \end{cases}$$

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

(4)

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