MATHEMATICS & STATISTICS (COMMERCE)

Time: 3 hrs.]

MARCH - 2014

[Marks: 80

[121]

[6]

[8]

Note: (i) All questions are compulsory.

- (ii) Answers to Section I and Section II must be written in separate answer books.
- (iii) Graph paper is compulsory for L.P.P.
- (iv) Logarithmic table will be provided on demand.
- (v) Figures to the right indicate full marks.
- (vi) Answer to every question must be written on new page.

SECTION - I

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

- (i) If $A = \begin{bmatrix} 1 & 2 & -3 \\ 5 & 4 & 0 \end{bmatrix}$, $B = \begin{bmatrix} 1 & 4 & 3 \\ -2 & 5 & 0 \end{bmatrix}$ then find 2A + 3B.
- (ii) If the function f is continuous at x = 1, then find f(1), where $f(x) = \frac{x^2 3x + 2}{x 1}$ for $x \ne 1$.
- (iii) If $x = \tan^{-1} t$ and $y = t^3$, find $\frac{dy}{dx}$.
- (iv) Evaluate : ∫ sin² x dx
- (v) Write the negation of the following statements:
 (a) Chetan has black hair and blue eyes.
 (b) ∃ x ∈ R such that x² + 3 > 0.
- (vi) If $A = \begin{bmatrix} 1 & 1 \\ 2 & 2 \end{bmatrix}$, $B = \begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}$ then find |AB|.
- (vii) Evaluate : $\int \frac{dx}{4-9x^2}$
- (viii) If the function f is continuous at x = 2, then find 'k' where $f(x) = \frac{x^2 + 5}{x 1}$, for $1 < x \le 2$ = kx + 1, for x > 2

Q. 2(A) Attempt any TWO of the following: (3 Marks each)

- (i) If $x^y = e^{x-y}$, show that $\frac{dy}{dx} = \frac{\log x}{(1 + \log x)^2}$
- (ii) If $\sin y = x \sin(a + y)$ prove that $\frac{dy}{dx} = \frac{\sin^2(a + y)}{\sin a}$
- (iii) Discuss extreme values of the function $f(x) = x \cdot \log x$
- Q. 2(B) Attempt any TWO of the following: (4 Marks each)
 (i) Discuss the continuity of the function f at x = 0.
 - where $f(x) = \frac{5^x + 5^{-x} 2}{\cos 2x \cos 6x}$, for $x \neq 0$ = $\frac{1}{8} (\log 5)^2$, for x = 0.

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