

MATHEMATICS & STATISTICS (COMMERCE)

Time : 3 hrs.]

MARCH - 2014

[Marks : 80

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)

[12]

(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 $x \neq 1$.

(iii) If $x = \tan^{-1} t$ and $y = t^3$, find $\frac{dy}{dx}$.

(iv) Evaluate : $\int \sin^2 x \, dx$

(v) Write the negation of the following statements :

(a) Chetan has black hair and blue eyes.

(b) $\exists x \in \mathbb{R}$ such that $x^2 + 3 > 0$.

(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 $1 < x \leq 2$
 $= kx + 1$, for $x > 2$

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

[6]

(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)

[8]

(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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Karin Nielsen-Saines



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