

Total No. of Questions : 5]

P499

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[4917]-102

F. Y. B. Sc.

MATHEMATICS

**MT - 102 : Calculus and Differential Equations
(2013 Pattern) (Paper - II)**

Time : 3 Hours]

[Max. Marks : 80

Instructions to the candidates:

- 1) All questions are compulsory.
- 2) Figures to the right side indicate full marks.

Q1) Attempt any EIGHT of the following:

[16]

- a) Solve the inequality : $|3x + 4| < |x + 2|$.
- b) Evaluate: $\lim_{x \rightarrow 4} \frac{4 - \sqrt{x+12}}{x-4}$.
- c) Find the real numbers x for which of the following function is continuous.
$$f(x) = \frac{x^2 + x + 1}{x^2 + 3x - 10}$$
- d) Find the derivative of the function $f(x) = \sqrt{x} + \sqrt{x}$ with respect to x .
- e) State Maclaurin's theorem with Lagrange's form of remainder.
- f) Evaluate: $\int_0^{\pi/2} \sin^8 x \, dx$.
- g) Define homogeneous differential equation of first degree and first order.
- h) Solve the differential equation $(1 + y^2) dx - x^2 dy = 0$.
- i) Find the orthogonal trajectories of the family of curves $y^2 = mx$ where m is a parameter.
- j) Solve: $y = px + \tan^{-1} \left(\frac{p}{\sqrt{1+p^2}} \right)$,
where $p = \frac{dy}{dx}$.

P.T.O.

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