

F.Y.B.Sc. (Computer Sci.)

Pt-Exam.-1st Half -2017-18
Con. 112-17.

Maths - Pap-I
(3 Hours)

Mar
2017

MI-4015

[Total Marks : 100]

N.B. : (1) All questions are compulsory.
(2) Figures to right indicate full marks.

1. Solve the following :-

10

(a) State Sandwich theorem of limits and hence evaluate $\lim_{x \rightarrow 0} \frac{1 - \cos x}{x^2}$.
(b) Define continuity of the function of two variables. Examine the continuity of $f(x, y)$ at $(1, 2)$.

$$f(x, y) = \begin{cases} \frac{x^2 - 4y^2}{x - 2y} & \text{if } x \neq 2y \\ 3 & \text{otherwise.} \end{cases}$$

2. Attempt any three :-

15

(a) Draw graph of flooring function by defining it.
(b) Show that $\lim_{x \rightarrow 0} \frac{1}{x^4}$ does not exist.
(c) Show that $\lim_{x \rightarrow 2} f(x)$ does not exist at $x = 2$.

$$f(x) = \begin{cases} 3 - x & \text{if } x \leq 2 \\ \frac{x}{2} + 1 & \text{if } x > 2. \end{cases}$$

(d) Discuss continuity of function $f(x)$ on \mathbb{R} where $f(x) = x^3 + x^2 - 2x + 1$.

3. Attempt any three :-

15

(a) Show that if $f : I \rightarrow \mathbb{R}$, where I is open interval in \mathbb{R} , is differentiable at point p in \mathbb{R} then f is continuous. Is converse true? Justify.

(b) Check the differentiability of $f(x)$ at $x = 4$.

$$f(x) = \begin{cases} x + 8 & \text{if } x \geq 4 \\ 3x + 2 & \text{if } x < 4. \end{cases}$$

(c) If $y = \tan^{-1} x$ then prove that $(1 + x^2)y_2 + 2xy_1 = 0$.

(d) Find tangent and normal to the curve $x^2 + xy - y^2 = 1$ at the point $(2, 3)$.

2

[TURN OVER]

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