

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE- SEMESTER 1<sup>st</sup> / 2<sup>nd</sup> EXAMINATION (OLD SYLLABUS) – SUMMER - 2017****Subject Code: 110014****Date: 01/06/2017****Subject Name: Calculus****Time: 2:30 PM to 05:30 PM****Total Marks: 70****Instructions:**

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) 1) Find the Taylor's series about  $x=0$  for  $f(x) = \frac{1}{1+x^2}$ . 03
- 2) Find the expansion of  $\log\left(x + \frac{1}{x}\right)$  in ascending powers of  $x$  up to terms in  $x^5$  and find approximately the value of  $\log 4.5$ . 04
- (b) 1) Does the series  $\sum_{n=0}^{\infty} (x + (-1)^n)$  converges? Justify. 03
- 2) Evaluate: 04
- i.  $\lim_{x \rightarrow 0} \frac{x^2 + 1}{x^2 - 1}$
- ii.  $\lim_{x \rightarrow 0} \frac{1 - \cos(x)}{x^2}$
- Q.2** (a) 1) Determine whether the series  $\sum_{n=0}^{\infty} \frac{(-1)^n}{n!}$  converges or diverges. 03
- 2) Find the radius and interval of convergence of the series  $\sum_{n=0}^{\infty} \frac{(x-2)^n}{n!}$ . 04
- (b) 1) Determine whether the series  $\sum_{n=0}^{\infty} \frac{(-1)^n}{n!}$  converges or diverges. 03
- 2) Discuss the continuity of  $f(x, y) = \begin{cases} \frac{x^2 + y^2}{x^2 + y^2 + 1} & : (x, y) \neq (0, 0) \\ 0 & : (x, y) = (0, 0) \end{cases}$  at  $(0, 0)$ . 04
- Q.3** (a) 1) Does the improper integral  $\int_0^{\infty} x e^{-x^2} dx$  converge or diverge? Justify. 03
- 2) Compute the four second order partial derivatives of  $f(x, y) = x^2 y^2 + 1 + 2x^2 y^2$ . 04
- (b) 1) Evaluate  $\lim_{x \rightarrow 0} \left( \frac{1}{x^2} + \frac{1}{x} \right)$ . 03
- 2) Find the maximum and minimum values of  $z = 1 - y$  on the circle  $x^2 + 1 + y^2 = 4$ . 04
- Q.4** (a) 1) Find the equation of the tangent plane to the sphere  $x^2 + 1 + y^2 + 1 + z^2 = 14$  at the point  $(1, 2, 1)$ . 03
- 2) If  $u = 1 + 2xy + 3x^2 + 4y^2 + 5z^2$ , show that  $\frac{\partial^2 u}{\partial x^2} + \frac{\partial^2 u}{\partial y^2} + \frac{\partial^2 u}{\partial z^2} = 10$ . 04
- (b) 1) Determine the intervals of increasing and decreasing for the function  $f(x) = x^3 - 1 + 2x - x^2$ . 03
- 2) Evaluate  $\int \int_R (x + 2y) dx dy$ , where  $R$  is the region bounded by the parabolas  $y = 2x^2$  and  $y = 1 + 1 - x^2$ . 04

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