

GUJARAT TECHNOLOGICAL UNIVERSITY
B. E. - SEMESTER -I • EXAMINATION – WINTER 2012

Subject code: 110014

Date: 21-01-2013

Subject Name: Calculus

Time: 10.30 am – 01.30 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 series expansion of $f(x) = \tan x$ in the powers of $\left(x - \frac{\pi}{4}\right)$, showing at least four nonzero terms. Hence find the value of $\tan 46^\circ$. [4]
- (2) Find $\lim_{x \rightarrow 0} \left(\frac{e^x + e^{2x} + e^{3x}}{3} \right)^{\frac{1}{x}}$. [3]
- (b)
- (1) What is the average value of $f(x) = x^2 - 3x + 2$ over the closed interval $[1, 2]$? For what values of x in the given interval, the function will attain it? [4]
- (2) For $I_n = \int_0^{\pi/2} \cos^n x \, dx$, $n = 2, 3, 4, \dots$, show that $I_n = \frac{n-1}{n} I_{n-2}$. Also, evaluate $\int_0^{\pi/2} \cos^{10} x \, dx$. [3]
- Q.2**
- (a)
- (1) Show that $\lim_{n \rightarrow \infty} \frac{x^n}{n!} = 0$, where $x > 0$ and x remains fixed as n tends to infinity. [4]
- (2) Test the convergence of $\frac{3}{1^2-3} + \frac{3}{2^2-3} + \frac{3}{3^2-3} + \frac{3}{4^2-3} + \dots$. [3]
- (b)
- (1) Is the series $1 - \frac{1}{2} + \frac{1}{3} - \frac{1}{4} + \frac{1}{5} - \frac{1}{6} + \dots$ convergent? Does it converge absolutely? Give reasons. [3]
- (2) Test the convergence of the series $\frac{x}{2 \cdot 5} - \frac{x^2}{2^2 \cdot 10} + \frac{x^3}{2^3 \cdot 15} - \frac{x^4}{2^4 \cdot 20} + \dots$. Find [4]

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