

GUJARAT TECHNOLOGICAL UNIVERSITY

B.E. - SEMESTER - I & B.TECHNICAL EXAMINATION - SUMMER 2023

Subject Code: 3110004

Date: 31-07-2023

Subject Name: Mathematics - I

Time: 10:30 AM TO 01:30 PM

Total Marks: 70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Simple and non-programmable scientific calculators are allowed.

			Marks
Q.1	(a)	Evaluate: $\lim_{x \rightarrow 0} \frac{e^x - e^{-x} - 2x}{x - \sin x}$.	03
	(b)	Show that series $\sum_{n=1}^{\infty} \left(\frac{1}{\sqrt{n}} - \frac{1}{\sqrt{n+1}} \right)$ is convergent. Hence find sum of the series.	04
	(c)	Define eigenvalue and eigen vector of a matrix. Find all eigenvalues and eigenvectors of matrix: $A = \begin{bmatrix} 1 & -2 & 3 \\ 2 & -5 & 3 \\ 6 & -6 & 4 \end{bmatrix}$	07
Q.2	(a)	Evaluate: $\int_0^1 \int_0^1 \int_0^1 2xyz \, dx \, dy \, dz$.	03
	(b)	Find equations of tangent plane and normal line to the surface $\frac{x^2}{2} - \frac{y^2}{3} - z = 0$ at $(2, 3, -1)$.	04
	(c)	Find Fourier series of 2π -periodic function $f(x) = x + x^2, -\pi < x < \pi$.	07
	(d)	Find the Fourier series for the periodic extension of $f(x) = \begin{cases} \sin x, & 0 \leq x \leq \pi \\ 0, & \pi < x < 2\pi \end{cases}$	07
Q.3	(a)	Define Improper integrals of type-I. Evaluate $\int_0^{\infty} \frac{dx}{x^2 + 2x + 5}$.	03
	(b)	Find the volume of the solid generated by revolving the region bounded by $y = x^2, x = 0$ and $x = 2$ about the x -axis.	04
	(c)	(i) Using ratio test discuss convergence of series $\sum_{n=1}^{\infty} \frac{(n+3)!}{31n!5^n}$.	03
	(d)	(ii) Use Taylor series to represent function $f(x) = 2x^2 + x^2 + 3x - 8$ in powers of $(x-1)$.	04

OR

Gtu Ac In Exam Paper

Wolfgang Guggemos



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