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GUJARAT TECHNOLOGICAL UNIVERSITY

BE- SEMESTER-I & II EXAMINATION – WINTER 2024

Subject Code:3110015

Date:10-01-2025

Subject Name:Mathematics - 2

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.

- Q.1** (a) Find α such that $(x+3y)\hat{i} + (y-2z)\hat{j} + (x+\alpha z)\hat{k}$ is solenoidal. 03
- (b) Solve $y e^x dx + (2y + e^x) dy = 0$ 04
- (c) Verify Green's theorem in a plane for the integral $\oint_C [(x-2y)dx + xdy]$ taken 07
around the circle $x^2 + y^2 = 4$.
- Q.2** (a) Find the Laplace transform of $(\sin 2t - \cos 2t)^2$. 03
- (b) Find the Fourier sine integral of $f(x) = e^{-bx}$. 04
- (c) Using the Frobenius method, obtain the series solution for 07
 $2x(1-x)y'' + (1-x)y' + 3y = 0$ about $x_0 = 0$.
- OR**
- (c) Using the method of undetermined coefficients, solve 07
 $(D^2 - 9)y = x + e^{2x} - \sin 2x$.
- Q.3** (a) Find the arc length of the curve $r(t) = t^2\hat{i} + t^3\hat{j}$ between (1,1) and (4,8). 03
- (b) Find the Laplace transform of $\frac{e^{-t} \sin t}{t}$. 04
- (c) State the convolution theorem and verify it for $f(t) = t$ and $g(t) = e^{2t}$. 07
- OR**
- Q.3** (a) Find the inverse Laplace transform of $\tan^{-1} x$. 03
- (b) Solve $x^2 p^2 + 3xyp + 2y^2 = 0$. 04
- (c) Solve the initial value problem using Laplace transformation $y'' - 3y' + 2y = 4t$ 07
with $y(0) = 1$, $y'(0) = -1$.
- Q.4** (a) Find the inverse Laplace transform of $\frac{e^{-2s}}{s^2 - 2s + 2}$. 03
- (b) Solve $(D^2 + 1)y = e^{-x}$. 04
- (c) Using method of variation of parameters, solve $(D^2 - 2D + 2)y = e^x \tan x$. 07
- OR**
- Q.4** (a) Classify the singular points of the equation $x^3(x-2)y'' + x^3y' + 6y = 0$. 03

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