

GUJARAT TECHNOLOGICAL UNIVERSITY**BE – SEMESTER 1&2 EXAMINATION – SUMMER 2020****Subject Code: 3110015****Date: 09/11/2020****Subject Name: Mathematics II****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.

			Marks
Q.1	(a)	Evaluate $\int_C \vec{F} \cdot d\vec{r}$ along the parabola $y^2 = x$ between the points (0, 0) and (1, 1) where $\vec{F} = x^2\vec{i} + xy\vec{j}$	03
	(b)	Find the work done in moving particle from A (1, 0, 1) to B (2, 1, 2) along the straight-line AB in the force field $\vec{F} = x^2\vec{i} + (x - y)\vec{j} + (y + z)\vec{k}$	04
	(c)	Verify green's theorem for $\oint_C (2xydx - y^2dy)$ where C is the boundary of the region bounded by the ellipse $3x^2 + 4y^2 = 12$	07
Q.2	(a)	Find the Laplace transform of $te^{-4t} \sin 3t$.	03
	(b)	Find the inverse Laplace transform of $\frac{5x+3}{(x-1)(x^2+2x+5)}$.	04
	(c)	Show that the vector field $\vec{F} = (y \sin z - \sin x)\vec{i} + (x \sin z + 2yz)\vec{j} + (xy \cos z + y^2)\vec{k}$ is conservative and find the corresponding scalar potential.	07
Q.3		OR	
	(c)	Show that $\vec{F} = 2xyz\vec{i} + (x^2z + 2y)\vec{j} + x^2y\vec{k}$ is irrotational and find a scalar function ϕ such that $\vec{F} = \text{grad} \phi$.	07
	(a)	Find the directional derivative of $f(x, y) = xy + xe^y + \cos(xy)$ at the point $P(1, 0)$ in the direction of $\vec{u} = 3\vec{i} - 4\vec{j}$.	03
Q.3	(b)	Find the inverse Laplace transform of $\log\left(1 + \frac{1}{x^2}\right)$.	04
	(c)	Find the singular solution and general solution of $y + px = x^4 p^2$	07
		OR	
Q.3	(a)	Find the Laplace transform of $\frac{\cos at - \cos bt}{t}$.	03
	(b)	Show that $\int_0^\pi \frac{\omega^3 \sin \omega x}{\omega^4 + 4} d\omega = \frac{\pi}{2} e^{-x} \cos x; x > 0$.	04
	(c)	Find the power series solution of $y' - 2xy = 0; y(0) = 1$ near $x = 0$.	07

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