



**First Semester B.E./B.Tech. Degree Examination, June/July 2024**  
**Mathematics – I for Mechanical Engineering Stream**

Time: 3 hrs.

Max. Marks: 100

- Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.*  
*2. VTU Formula Hand Book is permitted.*  
*3. M : Marks , L: Bloom's level , C: Course outcomes.*

Module – 1			M	L	C
Q.1	a.	Find the angle of intersection of the curves $r = a(1 + \cos \theta)$ , $r = b(1 - \cos \theta)$	06	L2	CO1
	b.	With the usual notations prove that for the given curve $r = f(\theta)$ , $\frac{1}{p^2} = \frac{1}{r^2} + \frac{1}{r^4} \left( \frac{dr}{d\theta} \right)^2$	07	L2	CO1
	c.	Find the radius of curvature of the curve $x^2 + y^2 = 2$ at (1, 1)	07	L3	CO1
<b>OR</b>					
Q.2	a.	Find the pedal equation for the curve $a^n = r^n \cos m\theta$ .	08	L2	CO1
	b.	Find the radius of curvature for the curves $x = a(\cos t + t \sin t)$ and $y = a(\sin t + t \cos t)$	07	L3	CO1
	c.	Using modern mathematical tool write a program/code to plot the curve $r = 2   \cos 2\theta  $	05	L3	CO5
<b>Module – 2</b>					
Q.3	a.	Using Maclaurin's theorem prove that $\sqrt{1 + \sin x} = 1 + x - \frac{x^2}{2} - \frac{x^3}{6} + \frac{x^4}{24} - \dots$	06	L2	CO2
	b.	If $u = f(2x - 3y, 3y - 4z, 4z - 2x)$ then find $6U_x + 4U_y + 3U_z = 0$	07	L2	CO2
	c.	Examine the function $f(x, y) = x^3 + 3xy^2 - 15x^2 - 15y^2 + 72x$ for extreme value.	07	L3	CO2
<b>OR</b>					
Q.4	a.	If $u = x + 3y^2 - z^3$ , $v = x^2yz$ , $w = 2x^2 - xy$ , evaluate $\frac{\partial(u, v, w)}{\partial(x, y, z)}$	08	L3	CO2
	b.	If $u = x^2y^2 + x^2y^3$ where $x = at^2$ , $y = 2at$ find $\frac{du}{dt}$	07	L3	CO2
	c.	Using modern mathematical tool write a program/code to evaluate $\lim_{x \rightarrow \infty} \left( 1 + \frac{1}{x} \right)^x$	05	L3	CO5
<b>Module – 3</b>					
Q.5	a.	Solve $\frac{dy}{dx} + \frac{y \cos x + \sin y + y}{\sin x + x \cos y + x} = 0$	06	L2	CO3
	b.	Find the orthogonal trajectories of cardioid $r = a(1 + \cos \theta)$	07	L2	CO3
	c.	Solve $yp' + (x - y)p - x = 0$	07	L2	CO3

# Engineering Ccp 1 Vtu

**Rosina Ehmann**



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