

CBCS SCHEME

USN

BMATS101

First Semester B.E./B.Tech. Degree Examination, Dec.2023/Jan.2024 Mathematics – I for CSE/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.	With usual notation prove that $\frac{d}{dt} \left(r \frac{d\theta}{dr} \right) = r \cdot \frac{d\theta}{dr}$.	6	L2	CO1
	b.	Find the angle between the curves $r = 6\cos\theta$ and $r = 2(1 + \cos\theta)$.	7	L2	CO1
	c.	Find the radius of curvature for the Folium of De-Cartes $x^3 + y^3 = 3axy$ at the point $\left(\frac{3a}{2}, \frac{3a}{2} \right)$.	7	L2	CO1
OR					
Q.2	a.	Show that the curves $r = a(1 + \sin\theta)$ and $r = a(1 - \sin\theta)$ cut each other orthogonally.	8	L2	CO1
	b.	Find the pedal equation of $r^* = a(1 + \cos n\theta)$.	7	L2	CO1
	c.	Using modern mathematical tool, write a program/code to plot the curve sine and cosine curve.	5	L3	CO5
Module – 2					
Q.3	a.	Using Maclaurin's series, expand $\sqrt{1 + \sin 2x}$ in powers of x upto the terms x^4 .	7	L2	CO1
	b.	If $U = e^{ax+by} f(ax^2 + by^2)$, prove that $b \frac{\partial U}{\partial x} + a \frac{\partial U}{\partial y} = 2abU$.	6	L2	CO1
	c.	Find the extreme values of the function $\sin x + \sin y + \sin(x + y)$.	7	L3	CO1
OR					
Q.4	a.	Evaluate the $\lim_{x \rightarrow 0} \left[\frac{a^x + b^x + c^x + d^x}{4} \right]^x$.	8	L2	CO1
	b.	If $U = f(2x - 3y, 3y - 4z, 4z - 2x)$, prove that $\frac{1}{2} \frac{\partial U}{\partial x} + \frac{1}{3} \frac{\partial U}{\partial y} + \frac{1}{4} \frac{\partial U}{\partial z} = 0$.	7	L2	CO1
	c.	Using modern mathematical tool, write a program/code to evaluate $\lim_{x \rightarrow \infty} \left(1 + \frac{1}{x} \right)^x$.	5	L3	CO5
Module – 3					
Q.5	a.	Solve $\frac{dy}{dx} + \frac{y}{x} = x^2 y^4$.	6	L2	CO2
	b.	Find the orthogonal trajectories of the family $r = a(1 + \sin\theta)$.	7	L3	CO2
	c.	Find the solution of the equation $x^2(y - Px) = P^2y$ by reducing into Clairaut's form using the substitution $X = x^2, Y = y^2$.	7	L2	CO2
OR					

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