

CBGS SCHEME



BMATS101

First Semester B.E./B.Tech. Degree Examination, June/July 2023 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 notations prove that $\tan\phi = r \frac{d\theta}{dr}$	06	L2	CO1
	b.	Find the angle between the curves $r^2 = a^2 \cos n\theta$ and $r^2 = b^2 \sin n\theta$	07	L2	CO1
	c.	Find the radius of curvature for $\sqrt{x} + \sqrt{y} = \sqrt{a}$ at $[\frac{a}{4}, \frac{a}{4}]$	07	L3	CO1
OR					
Q.2	a.	With usual notations prove that $\rho = \frac{(1+y_1^2)^{3/2}}{y_2}$	07	L2	CO1
	b.	Obtain pedal equation for the curve $r^2 = a^2 \cos n\theta$	08	L2	CO1
	c.	Using modern mathematical tool write a program/code to plot the curve $r = 2 \cos 2\theta $	05	L3	CO5
Module - 2					
Q.3	a.	Expand $\log(\cos x)$ by Maclaurin's series upto term containing x^6	06	L2	CO2
	b.	If $u = f\left(\frac{x}{y}, \frac{y}{z}, \frac{z}{x}\right)$, show that $x \frac{\partial u}{\partial x} + y \frac{\partial u}{\partial y} + z \frac{\partial u}{\partial z} = 0$	07	L2	CO2
	c.	Find the extreme values of the function $x^3 + y^3 - 3x - 12y + 20$	07	L3	CO2
OR					
Q.4	a.	Evaluate $\lim_{x \rightarrow 0} \left(\frac{a^x + b^x + c^x + d^x}{4} \right)^{1/x}$	07	L2	CO3
	b.	If $u = \frac{yz}{x}$, $v = \frac{zx}{y}$, $w = \frac{xy}{z}$, show that $\frac{\partial(u, v, w)}{\partial(x, y, z)} = 4$	08	L2	CO3
	c.	Using modern mathematical tool write a program/code to show that $u_{xx} + u_{yy} = 0$ give $u = e^x (x \cos y - y \sin y)$	05	L2	CO5
Module - 3					
Q.5	a.	Solve: $x \frac{dy}{dx} + y = x^3 y^4$	06	L2	CO3
	b.	Find the orthogonal trajectories of the family of the curves $r^2 \sin n\theta = a^2$ where 'a' is parameter.	07	L3	CO3
	c.	Solve: $xyp' - (x^2 + y^2)p + xy = 0$	07	L2	CO3
OR					

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