

CBCS SCHEME

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BMATS101

First Semester B.E./B.Tech. Degree Examination, Jan./Feb. 2023

Mathematics – I for Computer Science Engineering Stream

Time: 3 hrs.

Max. Marks: 100

Notes: 1. Answer any FIVE full questions, choosing ONE full question from each module.

2. VTE/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 $\tan \phi = r \frac{dy}{dx}$.	6	L2	CO1	
	b.	Find the angle of intersection between the curves $y = \frac{a^2}{1+x}$ & $y = \frac{a^2}{1-x}$.	7	L2	CO1	
	c.	Find radius of curvature of the curve $y = a \log \sec \left(\frac{x}{a} \right)$ at any point (x, y).	7	L2	CO1	
OR						
Q.2	a.	With usual notations prove that $\frac{1}{p^2} = \frac{1}{r^2} + \left(\frac{dr}{ds} \right)^2$.	8	L2	CO1	
	b.	Find the radius of the curvature of the curve $r = a(1 + \cos \theta)$.	7	L2	CO1	
	c.	Using modern mathematical tool write a program/code to plot the Sine and Cosine curve.	8	L3	CO5	
Module – 2						
Q.3	a.	Using Maclaurin's series prove that $\sqrt{1 + \sin 2x} = 1 + x - \frac{x^2}{2} + \frac{x^3}{6} + \dots$	6	L2	CO1	
	b.	If $Z = e^{ax+by}$ prove that $b \frac{\partial Z}{\partial x} + a \frac{\partial Z}{\partial y} = 2abZ$.	7	L2	CO1	
	c.	Find the extreme values of the function $f(x, y) = x^2 + y^2 - 3x - 12y + 20$.	7	L3	CO1	
OR						
Q.4	a.	Evaluate $\lim_{x \rightarrow 0} \left(\frac{a^x + b^x + c^x + d^x}{4} \right)^{\frac{1}{x}}$.	8	L2	CO1	
	b.	If $u = \frac{2yz}{x}$, $v = \frac{3xz}{y}$, $w = \frac{4xy}{z}$, find $J \left(\frac{u, v, w}{x, y, z} \right)$.	7	L2	CO1	

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SJ Ball



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Mathematics 1 Exam

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