Course Code: U23MA101

LORDSINSTITUTEOFENGINEERINGANDTECHNOLOGY (UGC Autonomous)

Approved by AICTE | Recognized by Government of Telangana | Affiliated to Osmania University Accredited by NBA | Accredited with 'A' grade by NAAC | Accredited by NABL

B.E-I SEMESTER, CONTINUOUS INTERNAL EVALUATION-II, January, 2024

Mathematics-1 Common to: CE, CSE, MECH & CSD

	me: 60 min. Date: 29-01-2024 FN		Max. Mari	Max. Marks :20		
nstr	uctions	to the Stud	lents:			
•	Qu	estion No.	1 is Compulsory			
•	• An	swer any 2	Questions from Q.No.2 -Q.No4		CO	BTL
1.	a.	Find the ma	axima and minima of the function			BIL
	.,	$f(x) = x^5 -$	$3x^4 + 5$	2	CO3	BTL2
	C.		$\int_{x}^{\sqrt{x}} (x^2 + y^2) dy dx$	2	CO4	BTL3
		State Green	n's theorem on a plane.	2	CO5	BTLI
2.	Disco	ice the man				
	Disce	iscuss the maxima and minima of $f(x,y) = 4x^2 + 2y^2 + 4xy - 10x - 2y - 3.$		7	CO3	BTL2
3.		.4		CO4	BTL3	
/	Evalu	7	100			
4.	Find		etween the surfaces		CO5	BTL2
		$x^2 +$	$y^2 + z^2 = 9$, $z + 3 = x^2 + y^2$ at $(-2,1,2)$	7		

Bloom's Taxonomy Levels (BTL)

I.	II.	III.	IV.	V.	VI.
Remembering	Understanding	Applying	Analyzing	Evaluating	
		NAME OF TAXABLE PARTY O	7 8	Evaluating	Creating