Enrollment No.



School:School of ScienceProgram/s:BSc ChemistryYear:2ndExamination:End Semester ExaminationExamination year:December 2022

Course Code:	MA151	Course Name:	Numerical Methods		
	12/12/2022			Total Marks:	40
	the second s		Total Pages:	1	
Time:	11:30 am to 01	:30 pm	rotarrageor		

structions:

- ➔ Write each answer on a new page.
- → Use of a calculator is permitted

Q. No.	Details							CO's	BTL
Q.1	Attempt the	following		CO1, CO2, CO3, CO4	1,2,3				
[1]	Using trapezoidal rule, compute the area bounded by the curve described in the following table: [consider h=0.01]								
	X: 1	.47 1.48	3 1.49	1.50	1.51	1.52			
	F(x) 3	.86 3.90	3.96	4.02	4.06	4.12			
[2]	Find a root l using bisect	ies between ion method.	[06]						
[3]	Write signific (1) 3.141	cant digits of t 159 (2)	[04]						
Q.2	Attempt ANY	THREE of	[24]	CO1, CO2, CO3, CO4	1,2,3				
[1]	r + v + 5z	Elimination n $= -1, 2x + 1$							
[2]	Find $y(1.4)$ f	$\operatorname{or} \frac{dy}{dx} = \frac{y}{x}, w$							
[3]	Using Newton decimal place	es of the equat							
[4]	The population of the town in the census is as given in the data. Using Newton's back word difference interpolation formula to estimate the population in the year 1996.								
	Year (x):	1961	1971	1981	1991	2001			
	Population(y (in thousand		66	81	93	101			

************End of Question Paper**********