No. of Printed Pages : 2 **BCSL–058(Set-I)**

BACHELOR OF COMPUTER APPLICATIONS (REVISED) (BCA)

Term-End Practical Examination

June, 2025

BCSL–058(Set-I) : COMPUTER ORIENTED NUMERICAL TECHNIQUES LAB

Time : 1 Hour *Maximum Marks : 50*

***Note** : (i) There are **two** questions in this paper and both are compulsory.*

(ii) Each question carries 20 marks.

(iii) 10 marks are reserved for viva-voce.

(iv) The programs may be implemented in any one of the programming languages out of C, C++, MS-Excel or any other spreadsheet software.

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1. Write a program to implement Simpson's 1/3rd rule to approximate the value of definite integral (I) given below : 20

$$I = \int_{0.2}^{1.0} x^{1/3} dx$$

Take $h = 0.2$.

2. Write a program to implement Bisection method for finding positive roots of the equation $x^2 - 10x + 21 = 0$. You have make suitable choice for the bounds. 20

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