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

BACHELOR OF COMPUTER APPLICATIONS
(BCA) (REVISED)
Term-End Practical Examination
June, 2025

BCSL–058(Set-II) : 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 Trapezoidal rule to approximate the value of the definite integral (I) given below : 20

$$I = \int_1^2 e^x dx$$

Take $h = 0.2$.

2. Write a program to demonstrate linear interpolation. Use your program to interpolate the values between points (20, 19) and (30, 31) to find the value of y ordinate when $x = 25$. 20

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