

No. of Printed Pages : 1 **BCSL-058(Set-II)**

**BACHELOR OF COMPUTER
APPLICATIONS (BCA) (REVISED)
Term-End Practical Examination
December, 2024**

**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) *Rest 10 marks are for viva-voce.*

1. Write a program in C/C++ to implement the linear interpolation. Support your code with suitable comments for better readability. 20
2. Write a program in C/C++ to determine the approximate value of the definite integral (I) by using Simpson's 1/3rd rule : 20

$$I = \int_{0.4}^1 x^{1/3} dx$$

using step size $(h) = 0.2$.

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