

**BACHELOR OF COMPUTER APPLICATIONS (Revised)
(BCA)****Term-End Practical Examination**

00123

June, 2015**BCSL-058(P)/S1 : 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 written in any **one** of the programming languages out of C, C++, MS-Excel or Spreadsheet.*
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1. Write a program to implement Bisection Method for finding a positive root of the equation

$$x^2 - 2x - 24 = 0. \quad 20$$

2. Write a computer program that implements Trapezoidal rule for approximating the value of a definite integral. Use the program to approximate the value of

$$\int_{2.0}^{3.0} x^{4/3} dx, \text{ using two nodal points.} \quad 20$$