

BACHELOR OF COMPUTER APPLICATIONS (Revised)
(BCA)

01343

Term-End Practical Examination**December, 2016****BCSL-058(P)/S2 : 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 Spreadsheet.*
-

1. Write a program to implement Secant method or Bisection method (only one of the methods) for finding an approximate root of an equation. Use it to find a root of $5x^2 - 3x + 2 = 0$. 20

2. Write a program to implement Simpson's 1/3 formula to approximate the value of a definite integral. Further, use your program to approximate the value of

$$\int_{2.3}^{2.9} e^x dx, \text{ with } h = 0.2. \quad 20$$
