

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

00309

December, 2015

BCSL-058(P)/S2 : COMPUTER ORIENTED NUMERICAL TECHNIQUES LAB*Time : 1 Hour**Maximum Marks : 50*

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- 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 $x^2 - 5x - 36 = 0$. You have to make a suitable choice for the bounds. 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

$$\int_{2.3}^{2.7} e^x dx, \text{ using } h = 0.2. \quad 20$$
