BACHELOR OF COMPUTER APPLICATIONS (Revised) (BCA)

00923

Term-End Practical Examination

December, 2016

BCSL-058(P)/S3 : 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.*

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1. Write a program to implement the Bisection method for finding a positive root of the equation $x^2 + x - 20 = 0$. Make a suitable choice for bounds.   **20**

2. Write a program to implement Simpson's 1/3 formula to approximate the value of a definite integral. Use it to approximate the value of $\int_{2}^{4} dx/(1 + x^2)$.   **20**