BACHELOR OF COMPUTER APPLICATIONS (Revised) (BCA)

Term-End Practical Examination

December, 2015

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 written 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 a polynomial equation. Use it to find a root of $x^2 3x 10 = 0$. Make your assumptions about bounds. 20
- 2. Write a program to implement Trapezoidal rule for approximating the value of a definite integral. Use it to approximate the value of $\int_{1:0}^{2\cdot 0} x^{2/3} dx$, using only two

nodal points.

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