

BCSL-058 (Set-1)

BACHELOR OF COMPUTER APPLICATION (REVISED) BCA

Computer Oriented Numerical Techniques Lab

Duration: 1 Hr.

Maximum Marks: 50

Note: 1. There are two questions in this paper and both are compulsory.

2. Each question carries 20 marks. Rest 10 marks are for viva-voce.

1. Write a C/C++ program to implement Bisection method for finding a positive root of the equation $x^2 - 9x + 21 = 0$. Make the suitable choice for the bounds. 20

2. Write a program in C/C++ to determine the approximate value of the definite integral(I) by using Simpson's (1/3)rd rule: 20

$$I = \int_{0.4}^1 x^{1/3} dx$$

Using step size (h) = 0.2
