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BCSL-058/S3

Bachelor of Computer Application (Revised) (BCA) Term-End Examination December, 2018

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) Rest 10 marks are reserved for viva-voce.

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1. Write a program in C/C++ to find the root of the following equation by using "Bisection Method" : 20

   Equation :

$$x^3 - 5x + 1 = 0; x \in [1, 2]$$

2. Write a program in C/C++ to approximate the value of Integral (I), by using Trapezoidal rule : 20

$$I = \int_{0.2}^{1} \frac{dx}{\sqrt{5 + x}}$$

   using step size $(h) = 0.2$.