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No. of Printed Pages : 2

BCSL-058/S1

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 solution of system of linear equations (given below), by using Gauss-Elimination method : 20

$$x + y + z = 2$$

$$x - 2y + 3z = 14$$

$$x + 3y - 6z = -23$$

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

$$I = \int_{0.2}^{1.0} x^{1/3}\, dx,$$

using step size $(h) = 0.2$.