

123733

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.
-

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.