

**BACHELOR OF COMPUTER APPLICATIONS (Revised)**  
**(BCA)**

**Term-End Practical Examination**

01895

**June, 2017**

**BCSL-058(P)/S2 : 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 implemented in any **one** of the programming languages out of C, C++, MS-Excel or Spreadsheet.*
- 

1. Write a program to implement Bisection method for finding a positive root of the equation  $x^2 - 9x + 20 = 0$ . You have to make a suitable choice for 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 
$$\int_{2.0}^{3.0} x^{2/3} dx, \text{ using only two nodal points.}$$
 20