

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

01726

**Term-End Practical Examination**

**June, 2016**

**BCSL-058(P)/S2 : COMPUTER ORIENTED NUMERICAL TECHNIQUES LAB**

*Time : 1 Hour*

*Maximum Marks : 50*

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- 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.*
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1. Write a program to implement the bisection method for finding a positive root of the equation  $x^2 + x - 20 = 0$ . Make a suitable choice for bounds. 20
2. Write a program to implement the trapezoidal rule for approximating the value of  $\int_{2.2}^{3.2} x^{3/4} dx$ , using only two nodal points. 20
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