

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

02602

**Term-End Practical Examination**

**June, 2018**

**BCSL-045(P)/S1 : INTRODUCTION TO ALGORITHM DESIGN LAB**

*Time : 1 Hour*

*Maximum Marks : 50*

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- Note :**
- (i) *There are two **compulsory** questions.*
  - (ii) *Each question carries 20 marks.*
  - (iii) *The rest 10 marks are for viva-voce.*
  - (iv) *All programs are to be written in 'C' language.*
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1. Write a program to calculate the length of a string. Calculate the number of times the loop will execute and the number of comparison operations required in this program. 20
  
  2. Implement the Bubble Sort algorithm to sort an array of 10 integer numbers showing all the intermediate steps.  
25 15 10 5 4 8 16 13 7 9  
How many times will the inner and outer loops execute? 20
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