

BACHELOR OF COMPUTER APPLICATIONS (Revised)
(BCA)

Term-End Practical Examination

December, 2015

00999

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) *Remaining 10 marks are for viva-voce.*
 - (iv) *Programs are to be written in 'C' language.*
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1. Implement a bubble sort algorithm for sorting the following list of numbers :

27 5 10 8 16 2 37

Calculate how many times the loop will execute. Count the number of comparison operations needed in this program.

20

2. Write a program to calculate the length of a string. Calculate the total time taken to execute this program.

20