

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

**Term-End Practical Examination**

**December, 2016**

**BCSL-045(P)/S4 : 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) *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 sort the following list using the selection sort algorithm showing the intermediate results (lists) at each step :

5 3 10 9 8 16 25

How many times will the loop and the comparison operations execute ? 20

2. Write a program to find out the second largest and the second lowest numbers in the list. How many times will the comparison operation execute ? 20
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