

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

**Term-End Practical Examination**

00252

June, 2017

**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) *The rest 10 marks are for viva-voce.*
  - (iv) *All programs are to be written in 'C' language.*
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1. Implement the Selection Sort algorithm to sort an array of 10 integers showing the list obtained at each step :

25 5 10 4 15 20 18 12 14 7

How many times will the inner loop and outer loop execute ?

20

2. Given a list of n distinct integers, determine the position of an integer in the list using a binary search :

5 10 15 20 22 27 30 35

Search for 22.

20