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**DCSL-045/S4**

**Bachelor of Computer  
Application (Revised) (BCA)  
Term-End Examination  
December, 2018**

**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. Given an array of  $n$  distinct integer numbers determine the location of an integer number in an array using a linear search. Calculate the number of times the key operation (comparison) and the loop will execute. 20
  
2. Write a program that finds the location of the last even integer number in an array. Calculate the number of times the loop and arithmetic operation to test whether the number is an even integer number or not will execute. 20