

106043

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BCSL-045/S3

**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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(A-8) P. T. Q.

1. Given an array of n distinct integers, determine the position of an integer in the list using a Binary Search algorithm : 20

Array : 15, 20, 25, 30, 32, 35, 40, 45 search for 32.

How many times the number of comparisons and division of an array will execute ?

2. Write a program that finds the location of the first odd number in an array of integer numbers. Calculate the number of times the loop and the arithmetic operation to test whether a number is odd or even will execute. 20