

BACHELOR OF COMPUTER APPLICATIONS (Revised)
(BCA)

02023

Term-End Practical Examination

June, 2015

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 binary search algorithm for searching for an item 16 from the following sorted array A with 10 elements :

2 4 8 12 16 25 30 32 40 50

Calculate the number of comparison operations, divide operation and total time taken to execute a program.

20

2. Write a program to combine two strings and calculate the number of times the loop will execute.

20