

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

**Term-End Practical Examination**

**June, 2016**

00408

**BCSL-045(P)/S3 : 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) *10 marks are for viva-voce.*

(iv) *All programs are to be written in C-language.*

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1. Implement insertion sort algorithm to sort an array of 10 integer numbers :

6 20 30 10 15 4 3 17 37 7

Calculate the number of comparison operations executed. 20

2. Write a program that finds the sum of the square of each integer number stored in an array of size 10. Calculate how many times the assignment operation will execute. 20

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