

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

**Term-End Practical Examination**

**December, 2014**

02863

**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) *10 marks are for viva-voce.*
  - (iv) *Programs are to be written in C-language.*
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1. Write a program to compute  $x^n$ , where both  $x$  and  $n$  are integer numbers. Calculate the total running time of the program and how many times the loop will execute. 20
  
2. Write a program to find the maximum of the list 5, 10, 15, 4, 3, 20, 25. How many times will the loop execute ? Calculate the total number of comparison operations in the program. 20