Bachelor of Computer Application (Revised) (BCA)

Term-End Examination

December, 2018

INTRODUCTION TO ALGORITHM DESIGN LAB

Time : 1 Hour   *Maximum Marks : 50*

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. Write a program to combine any two given strings. Calculate the number of times the loop will execute and the number of comparison operations required in this program. 20

2. Implement the selection sort algorithm to sort an array of 10 integer numbers showing all the intermediate steps :

35, 25, 15, 5, 14, 18, 16, 13, 17, 19

How many times will the inner loop execute and number of key comparisons required. 20