

# C.U.SHAH UNIVERSITY

## Summer Examination-2018

**Subject Name : Fundamentals in Computer Programming**

**Subject Code : 4TE01FCP1**

**Branch: B.Tech (All)**

**Semester : 1**

**Date : 31/03/2018**

**Time : 02:30 To 05:30**

**Marks : 70**

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
  - (2) Instructions written on main answer book are strictly to be obeyed.
  - (3) Draw neat diagrams and figures (if necessary) at right places.
  - (4) Assume suitable data if needed.
- 

**Q-1            Attempt the following questions:**

- a) What is debugging? (1)
- b) What is the working of a compiler? (1)
- c) What is the difference between ++a and a++? (1)
- d) Is that possible to store 32768 in an int data type variable? (1)
- e) What are the valid places to have keyword “break”? (1)
- f) Describe the difference between = and == symbols in C programming? (1)
- g) What is the behavioral difference when include header file in double quotes (“ ”) and angular braces (< >)? (1)
- h) What do you mean by prototype function in C? (1)
- i) What is a nested loop? (1)
- j) What do you mean by chain of pointer? (1)
- k) What is the use of toupper( ) function? (1)
- l) What do you mean by wild pointers in C? (1)
- m) What do you mean by dangling pointer? (1)
- n) What is dynamic memory allocation? (1)

**Attempt any four questions from Q-2 to Q-8**

**Q-2            Attempt all questions**

- (A) Explain basic structure of C program in details. (7)
- (B) Explain switch...case statement with suitable example. (7)

**Q-3            Attempt all questions**

- (A) What is operator? Explain any six operators used in C Programming. (7)



- (B) Explain process of execution of C program in details. (7)
- Q-4** **Attempt all questions**
- (A) What is type conversion? Explain implicit type conversion and explicit type conversion. (7)
- (B) Write a C program to find whether a given number is palindrome or not. (7)
- Q-5** **Attempt all questions**
- (A) Explain two dimensional arrays with suitable example. (7)
- (B) Write a C program that will demonstrate the use of strcat( ), strcmp( ), strcpy( ), strlen( ) functions. (7)
- Q-6** **Attempt all questions**
- (A) Explain array of structure with suitable example (7)
- (B) Write a C program to find GCD of two numbers using recursion. (7)
- Q-7** **Attempt all questions**
- (A) What is function? Write a short note on categories of function in details. (7)
- (B) Write a C program to check given number is armstrong or not. (7)
- Q-8** **Attempt all questions**
- (A) Explain call by value and call by reference with suitable example. (7)
- (B) Write a C program to read data from the keyboard, write it to a file called INPUT, again read the same data from the INPUT file, and display it on the screen. (7)

