

C.U.SHAH UNIVERSITY

Winter Examination-2018

Subject Name : Fundamental of Computer Programming

Subject Code : 4TE01FCP1

Branch: B.Tech (All)

Semester : 1

Date : 05/12/2018

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.
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Q-1 Attempt the following questions: (14)

- a) Define : Token
- b) Give definition of algorithm.
- c) What is Trigraph sequence?
- d) Define: Variable
- e) What is string?
- f) What do you mean by malloc() and calloc()?
- g) What is bit field?
- h) Which operator has highest Priority?
- i) Define Hardware.
- j) What is the use of malloc () and calloc ()?
- k) Write the syntax for conditional operator.
- l) Define compiler.
- m) Give the name of types of storage classes.
- n) List various file modes.

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

Q-2 Attempt all questions (14)

- (a) Explain block diagram of Computer system. (07)
- (b) Define flowchart. Draw flowchart for finding area of circle. (07)

Q-3 Attempt all questions (14)

- (a) Write a note on basic structure of C program with proper diagram. (07)
- (b) Differentiate between entry control loop and exit control loop. (04)
- (c) List various C tokens. Explain any 2. (03)

Q-4 Attempt all questions (14)

- (a) Explain switch case with proper example. (07)
- (b) What do you mean by Array? List types of array. Write a C program to get 10 integer numbers from user and sum all numbers using array. (07)



- Q-5** **Attempt all questions** (14)
- (a) Explain the following string functions with example. (07)
- 1) strcat()
 - 2) strcpy()
 - 3) strlen()
- (b) Write a C Program to print the following pattern. (07)
- ```
*
* *
* * *
* * * *
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- Q-6** **Attempt all questions** (14)
- (a) Explain call by value and call by reference with example. (07)
- (b) What is pointer? List advantages of pointer. (04)
- (c) Explain I/O operations on file. (03)
- Q-7** **Attempt all questions** (14)
- (a) Explain user defined function with return type and passing arguments. (07)
- (b) Write a C Program to find maximum numbers from 3 numbers using else..if ladder. (07)
- Q-8** **Attempt all questions** (14)
- (a) Give difference between structure and union. (04)
- (b) Write a note on recursion. (03)
- (c) Explain implicit and explicit type conversion with example. (07)

