

Enrollment No:-_____

Exam Seat No:-_____

C.U.SHAH UNIVERSITY

Summer-2015

Subject Code: 4TE01FCP1 **Subject Name: Fundamentals in Computer Programming**

Course Name: B.Tech

Date: 8/5/2015

Semester: I

Marks : 70

Time: 10:30 TO 01:30

Instructions:

- 1) Attempt all Questions of both sections in same answer book/Supplementary.
- 2) Use of Programmable calculator & any other electronic instrument prohibited.
- 3) Instructions written on main answer book are strictly to be obeyed.
- 4) Draw neat diagrams & figures (if necessary) at right places.
- 5) Assume suitable & perfect data if needed.

-
- Q-1**
- | | |
|--|-----------|
| (a) Define: Keywords and Identifier. | 02 |
| (b) Define: strlen() and strcmp(). | 02 |
| (c) Define: fopen() and fclose(). | 02 |
| (d) Define: putchar() and puts() function. | 02 |
| (e) Differentiate between initialization and assignment operators. | 02 |
| (f) List out various Input and Output devices. | 02 |
| (g) What is software? Give the different categories of software. | 02 |

Attempt any Four from Q-2 to Q-8.

- Q-2**
- | | |
|--|-----------|
| (a) Write short note on Basic structure of C program. | 04 |
| (b) What is algorithm and flow chart? Explain both with some suitable example. | 05 |
| (c) What are the basic data types of 'C' . | 05 |
- Q-3**
- | | |
|---|-----------|
| (a) What is Variable? Explain types of Variable that is Local and Global variables. | 04 |
| (b) Draw a flowchart/algorithm to find factorial of given number:
f = 1 x 2 x 3.... N | 05 |
| (c) What is type conversion? Explain implicit type conversion and explicit type conversion. | 05 |
- Q-4**
- | | |
|---|-----------|
| (a) Explain various operators available in C. | 07 |
| (b) Write a C program for simple calculator (Using Switch statement). | 07 |
- Q-5**
- | | |
|---|-----------|
| (a) Explain 'if ...else If' ladder with flowchart. | 04 |
| (b) Explain for loop statement with syntax and example. | 05 |



- (c) What do you mean by recursive function? Explain with small example. 05
- Q-6 (a) Explain function with arguments and return values. 04
(b) Explain pointer with function arguments with example. 05
(c) Explain One Dimensional Array with syntax and example. 05
- Q-7 (a) Define a structure called cricket that will describe the following data members: 07
Player name and Team name, Batting Average Using cricket, declare an array player with 3 elements and write a C program to read the information about all the 3 players and print a team-wise list containing names of players with their average.
(b) Explain the storage class specifiers in C. 07
- Q-8 (a) Differentiate structure and union. 04
(b) Explain Two Dimensional Array with syntax and example. 05
(c) What is structure? How do we declare and access structure variables? 05

