

Enrollment No: _____ Exam Seat No: _____

C. U. SHAH UNIVERSITY

Summer Examination-2020

Subject Name : Fundamentals of Computer Programming

Subject Code : 4TE01FCP1

Branch: B.Tech (All)

Semester : 1

Date : 04/03/2020

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) Who invented C language? (01)
 - b) Which symbol is used for conditional operator? (01)
 - c) Which keys are used to compile and run C program? (01)
 - d) Write down the examples of Entry Controlled Loop. (01)
 - e) How many keywords are supported in C language? (01)
 - f) Which data type is used to store character value? (01)
 - g) Define: Array (01)
 - h) Define: Algorithm (01)
 - i) Define: Variable (01)
 - j) Write down any two rules for naming an identifier. (01)
 - k) What do you mean by malloc() and calloc()? (01)
 - l) What is the main difference between structure and union? (01)
 - m) Write down the examples of fundamental data type. (01)
 - n) What is the difference between a ++ and ++ a ? (01)

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

- Q-2 Attempt all questions (14)**



- (a) What is token? Explain various types of C tokens in detail. (07)
(b) Explain basic structure of C program with example. (07)
- Q-3 Attempt all questions (14)**
(a) Define flowchart? Which symbols are used for designing of flowchart? (07)
Draw the flowchart to find maximum of two numbers.
(b) Explain while loop with suitable example. (07)
- Q-4 Attempt all questions (14)**
(a) Explain if...else statement with example. (07)
(b) Explain switch statement with example. (07)
- Q-5 Attempt all questions (14)**
(a) Explain one dimensional array with example. (07)
(b) Define function? Explain structure of function. Mention various categories of function. Explain any one category with example. (07)
- Q-6 Attempt all questions (14)**
(a) Draw the block diagram of computer system. Explain each part in detail. (07)
(b) Explain various I/O operations on files. (07)
- Q-7 Attempt all questions (14)**
(a) What is pointer? Explain declaration of pointer with example. (07)
(b) What is structure? How can we declare and access structure variable? (07)
- Q-8 Attempt all questions (14)**
(a) Write a C program to find factorial of an entered number. (07)
(b) Write a C program to demonstrate the use of strlen(), strcpy(), strcmp(), strcat() functions. (07)

