

C. U. SHAH UNIVERSITY

Winter Examination-2019

Subject Name: Fundamental of Computer Programming

Subject Code: 4TE01FCP1

Branch: B.Tech (All)

Semester : 1

Date : 25/11/2019

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) What is token in C? (1)
- b) Define keyword. (1)
- c) What is the use of header files in C? (1)
- d) What are the basic data types in C ? (1)
- e) What is dynamic memory allocation? (1)
- f) What is nested loop? (1)
- g) What is null pointer? (1)
- h) What is full form ANSI? (1)
- i) What is recursion? (1)
- j) Differentiate between calloc() and malloc() (1)
- k) Define Variable. (1)
- l) What is string ? (1)
- m) Define identifier. (1)
- n) What is string length? (1)

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

Q-2 Attempt all questions (14)

- (a) Explain general structure of c program in detail. (7)
- (b) Define Algorithm and flowchart and give example of each. (7)

Q-3 Attempt all questions (14)

- (a) What is structure? Write down the its general format .Explain declaration and initialization of structure . (7)
- (b) Explain command line argument with example (7)

Q-4 Attempt all questions (14)

- (a) What is type conversion? Explain implicit type conversion and explicit (7)



- type conversion.
- (b) Write a C program to print the following pattern (7)
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- Q-5 Attempt all questions (14)**
- (a) Explain switch case statement with example. (7)
- (b) Explain various operators available in C. (7)
- Q-6 Attempt all questions (14)**
- (a) Explain the difference between call by value and call by reference with example. (7)
- (b) Give the difference between Structure and union. (4)
- (c) Give the difference between compiler and interpreter. (3)
- Q-7 Attempt all questions (14)**
- (a) Write a c program for a simple calculator. (7)
- (b) What is function? Explain different types of function in detail (7)
- Q-8 Attempt all questions (14)**
- (a) What is array? Explain one dimensional array with syntax and example. (7)
- (b) Explain break statement with example (7)

