

I B. Tech I Semester Supplementary Examinations, November - 2020
COMPUTER PROGRAMMING

(Com. to CE,ME,CSE,PCE,IT, Chem E, Aero E, AME, Min E, PE, Metal E, Textile Engg)

Time: 3 hours

Max. Marks: 70

- Note: 1. Question paper consists of two parts (**Part-A** and **Part-B**)
2. Answering **ALL** the questions in **Part-A** is Compulsory
3. Answer any **THREE** Questions from **Part-B**
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PART -A

1. a) What is meant by Compiler? Why does we need compiler to execute a program in C language? (3M)
- b) Differentiate between '*break*' and '*continue*' statements with a sample C program (4M)
- c) Differentiate between the Scope and Lifetime of a variable. (4M)
- d) What is dangling pointer? Why dangling pointers are dangerous? (3M)
- e) Why do we need to create a self-referential structures in C language? Explain. (4M)
- f) Write a C code snippet to read the contents of a text file. (4M)

PART -B

2. a) Explain the procedure for creating and executing a program in C language. (8M)
- b) Illustrate Implicit and Explicit Type Casting in 'C' programming. (8M)
3. a) Write a C program to input the angles of a triangle and check whether the triangle is equilateral, scalene or isosceles triangle. (8M)
- b) What are multidimensional arrays in C? Where are multidimensional arrays used? How does memory allocation takes place for a multidimensional array in C. (8M)
4. a) Explain about various types of parameter passing techniques in 'C' programming with an example. (8M)
- b) Discuss the difference between the declaration and definition of a variable with an sample 'C' program using the '*extern*' storage class. (8M)
5. a) Write a C program to access the values of an array of characters using pointer. (8M)
- b) What is the main use of function pointer in C? How do you declare a function pointer? Explain. (8M)
6. a) Differentiate between array of structures and array of pointers to structures. (8M)
- b) Explain about the enumeration data type in C language with a suitable example. (8M)
7. a) List and explain various file operating modes in C programming. (8M)
- b) Write a C program to find the occurrence of a given word in a text file. (8M)