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SET - 1

I B. Tech I Semester Supplementary Examinations, Nov/Dec - 2017 **C 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. Answer **ALL** the question in **Part-A** 3. Answer any **THREE** Questions from **Part-B** PART -A 1. a) Give the characteristics of an algorithm. (4M) b) Write a for loop to print numbers from 10 to 1. (3M)

c) What is the use of header files in C programming? (4M)

What is a dangling Pointer? How it is different from normal Pointer? (3M)

What are self-referential structures? (4M)

Compare and contrast between text and binary files. (4M)

PART-B

What is a programming language? Give the classification in it. (4M)

b) Compare and contrast constant with a variable. (4M)

c) Explain various operators available in C with examples. (8M)

Give the distinction between entry-controlled and exit-controlled loops. Explain 3. (8M)with examples.

Write a C Program that calculates the length of the string without using any string (8M)handling functions.

Define the scope and life time of a variable. Illustrate the necessity of storage 4. (16M)classes in C with an example of each.

List and explain various functions in C that support dynamic memory 5. a) (8M)management.

b) How arrays are passed as an argument to function? Explain with an example. (8M)

6. Define a structure to hold the following details of student. (16M)Hall ticket number, name, marks. Write a C program that uses this structure and calculates the average of 5 students.

7. a) Describe the role of ftell() in file handling. Write a C program that illustrates (8M)various file operation.

b) Write a C program to concatenate two text files. (8M)

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