R13

SET-1

I B. Tech II Semester Supplementary Examinations, Nov/Dec - 2017
COMPUTER PROGRAMMING
(Comm. to ECE, EEE, EIE, BIO-TECH., E COM. E & AGRI. E.)

Time: 3 hours

Max. Marks: 70

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

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PART –A

1. a) Write the size and range of basic data types. (4M)

    b) Give the use of break and continue with an example. (3M)

    c) What are the basic input and output functions used in C? (4M)

    d) Compare and contrast calloc() and malloc(). (4M)

    e) Give the usage of type def in structures. (3M)

    f) What is the difference between text and binary file. (4M)

PART -B

2. a) Write an algorithm and draw flowchart for finding greatest among three given numbers. (8M)

    b) Explain with a neat diagram about the digital computer organization and each of its unit. (8M)

3. a) State the difference between event controlled and counter controlled loops with an example. (8M)

    b) Write a C program to generate all prime numbers between 1 and n, when the value for n is given by user. (8M)

4. State the types of functions depending upon the categories of arguments and return statements with an example. (16M)

5. a) Write the procedure for swapping two strings using pointers. (8M)

    b) How can a pointer be used to access individual elements of an array? Explain with an example. (8M)

6. a) Explain three different approaches that can be used to pass structures as function arguments. (8M)

    b) How a function can access members of a structure? Explain with suitable example. (8M)

7. a) Describe the process of handling errors during file operations. (8M)

    b) Write a C program to count the number of characters and number of lines in a file.

(8M)