Subject Code: R13105/R13

Set No - 1

I B. Tech I Semester Supplementary Examinations Dec - 2016
COMPUTER PROGRAMMING
(Com. to CE, ME, CSE, PCE, IT, CHEM, AE, AME, MM, PE, MTE, TE)

Time: 3 hours   **Max. Marks: 70**

Question Paper Consists of **Part-A** and **Part-B**
Answering the question in **Part-A** is Compulsory,
Three Questions should be answered from **Part-B**
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PART-A

1. (a) What are the Escape Sequences present in C?
    (b) Write a code for selecting the greatest of 4 numbers using conditional operator.
    (c) What is a function prototype? Give an example of it.
    (d) What are command line arguments? Explain.
    (e) Compare and contrast structures and unions.
    (f) Compare the I/O operations of binary and text files.

                                                                        [4+4+3+4+3+4]

PART- B

2. (a) Draw a flowchart to check whether the given number is zero, positive or negative.
    (b) Distinguish between logical and bitwise operators.   [8+8]

3. (a) What is the advantage of switch statement over if-else statement?
    (b) How do you create multidimensional arrays in C? Explain with an example.   [8+8]

4. (a) What are the different ways of passing parameters to the function?
    (b) What is mean by recursion? Explain the purpose of recursive function with an example.
                                                                                [8+8]

5. (a) What is a pointer? Explain how the pointer variable declared and initialized.
    (b) What is dynamic memory allocation? Write and explain the different dynamic memory
        allocation functions in C.   [8+8]

6. (a) What is a structure? Explain the syntax of structure declaration with example.
    (b) What are bit-fields? Where are they used? How are they different from other variables?
                                                                                [8+8]

7. (a) What is a file? Explain how the file open and file close functions handled in C.
    (b) Write a program that reads a line of text from a data file character by character
        and displays the text on the screen.   [8+8]