PCMCMT104.1-Elective-I-Paper-IV : Programming Techniques With C

P. Pages : 2   **GUG/W/23/10760**

Time : Three Hours |||||||||||||||||||| Max. Marks : 80
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Notes : 1.   All questions are compulsory and carry equal marks.
2.   Draw neat and labelled diagrams wherever necessary.
3.   Avoid vague answers and write answers relevant and specific to questions only.

1.   **Either.**

a)   Define operator. Explain arithmetic and relational operator in detail.   **8**

b)   Explain different data type in C with suitable example.   **8**

OR

c)   What is compiler? How it is different from interpreter.   **8**

d)   Explain: **8**
   i)   Type casting.
   ii)   Typedef.

2.   **Either.**

a)   What is loop? Explain any two loops with suitable example.   **8**

b)   Explain switch-case statement in detail with suitable example.   **8**

OR

c)   Explain break and continue statement with suitable example.   **8**

d)   What is the difference between the while and the do-while loop.   **8**

3.   **Either.**

a)   Write a program to find largest elements in the given list without. Sorting the list.   **8**

b)   Write a program to sort an integer array of N elements using bubble sort method.   **8**

OR

c)   Explain Arrays of structure and nested structure.   **8**

d)   What do- you mean by recursion? Write a program to find factorial of given number using recursion.   **8**

4.   **Either.**

    a)   What are the various operations performed on files?   **8**

    b)   Explain the concept of pointer in detail how it is useful.   **8**

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OR

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    c)   Write a program to swap two numbers using call by reference.   **8**

    d)   Write note on.   **5.**
        i)   Calloc ()   ii)   Free ()

5.   Solve all the questions.

    a)   Write a short note on problem analysis.   **4**

    b)   Write short note on Goto statement.   **4**

    c)   Write the difference between structure and union.   **4**

    d)   Write and explain any two file handling function.   **4**

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