Master of Computer Management (M.C.M.-I) (CBCS Pattern) First Semester
PCMCMT104.1 - Paper-IV Elective-I : Programming Techniques With C

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Notes : 1.   All the questions are compulsory and carry equal marks.
2.   Draw neat and labelled diagram wherever necessary.
3.   Avoid vague answers and write the answers relevant and specific to questions only.

1.   Either

a)   Write a note on   **8**
   i)   Problem Analysis.
   ii)   Process Analysis.

b)   List various operators in 'C'. Explain Relational and Logical operators in detail.   **8**

OR

c)   Define flowchart. Write the advantages and disadvantages of flowchart.   **8**

d)   Explain in detail various constants available in 'C'.   **8**

2.   Either

a)   Explain in detail the if-else statement.   **8**

b)   Write a program to check whether the entered number is palindrome or not.   **8**

OR

c)   Explain the use of break and continue in looping statement. Give example.   **8**

d)   Write a program to check whether the entered number is even or odd use switch statement.   **8**

3.   Either

a)   Explain in detail the concept of array.   **8**

b)   Write a program to enter marks of 5 subjects of 3 students. Find total and average of each student.   **8**

OR

c)   Discuss in detail about union.   **8**

d)   Write a program to find sum of first 10 natural number using recursive function.   **8**

4. Either

    a)   Explain in detail the concept of pointer. **8**

    b)   Write a program to demonstrate command line argument. **8**

<div align="center">OR</div>

    c)   Write and explain with syntax any 4 operations on files. Give example. **8**

    d)   Write a program to find sum and product of 2 numbers using call by reference. **8**

5.   Attempt all the questions.

    a)   Write a note on Input output statement in 'C'. **4**

    b)   Differentiate between while and do-while loop. **4**

    c)   Write in short about enum. **4**

    d)   Explain in brief Malloc ( ) and Calloc ( ). **4**

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