

M.C.M.- I (CBCS Pattern) Sem-I
PCMCMT104.1 - Paper-IV - Elective-I : Programming Techniques with C

P. Pages : 2

Time : Three Hours



GUG/W/22/10760

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.

Either:

1.
 - a) Write the algorithm and flow chart to find the area of triangle. 8
 - b) Explain various datatypes used in C language. 8

OR

- c) Explain the following operators with example. 8
 - i) Increment and Decrement Operator
 - ii) Ternary Operator
 - iii) Pointer and Address Operator
 - d) What do you mean by operator? Explain arithmetic and relational operator in detail. 8

Either:

2.
 - a) Describe the different form of branching statement with their syntax. 8
 - b) Define constant in C how it is classified. What is symbolic constant? 8

OR

- c) Write a program in C to print a number between A and B. 8
 - d) What is looping in C? And what are the different types of looping statement in C with example. 8

Either:

3.
 - a) What is library function? Classify and explain the categories of functions. 8
 - b) Write a program to enter the marks of 5 subjects of 3 students and also find total marks of each students using structure with array. 8

OR

- c) Explain the concept of union with suitable example. 8
 - d) Write a program to add two complex member using structure. 8

Either:

4. a) What are the various operations performed on files. **8**
- b) Write a program to find area and circumference of a circle in function. Print the result in main (Use call by reference). **8**

OR

- c) Explain the concept of file. What are the various operations performed on files? **8**
- d) Write a program to enter 'n' numbers in a file. After entering read the numbers in reverse order. **8**

5. Attempt all the questions.

- a) Define variable. Write the rules for defining a variable. **4**
- b) Differentiate between while and do-while loop. **4**
- c) Write and explain any two string library function. **4**
- d) Write and explain any two-file handling function. **4**
