

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

P. Pages : 2

Time : Three Hours



**GUG/W/24/10760**

Max. Marks : 80

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

**Either:**

1. a) What is Problem Analysis? Explain with suitable example. 8
- b) Write a detail note on flowchart. 8

**OR**

- c) Differentiate between compiler and interpreter. 8
- d) Enlist and explain with example the input and output statements in 'C'. 8

**Either:**

2. a) Explain the following- 8
  - i) Extern ii) Static
- b) Write a program in 'C' to demonstrate if-else statement. 8

**OR**

- c) Explain the syntax of for loop also write one example to demonstrate for loop.
- d) Explain else-if ladder conditional statement with suitable example. 8

**Either:**

3. a) Define array, explain the importance of array in C programming. 8
- b) Write a note on string library function. 8

**OR**

- c) What is the need of structure in C? Explain. 8
- d) Explain user defined functions in C. 8

**Either:**

- |           |    |   |          |
|-----------|----|---|----------|
| <b>4.</b> | a) | What is pointer? Explain the pointer operator with example. | <b>8</b> |
|           | b) | Explain the concept call by value and call by reference.    | <b>8</b> |

**OR**

- |           |     |   |          |
|-----------|-----|---|----------|
|           | c)  | Write a note on-  | <b>8</b> |
|           | i)  | malloc( )   |          |
|           | ii) | calloc( )   |          |
|           | d)  | Discuss the different file handling functions in C.             | <b>8</b> |
| <b>5.</b> |     | Solve all the questions.  |          |
|           | a)  | Enlist and explain in brief the operators in C.                 | <b>4</b> |
|           | b)  | Explain the use of break, continue and goto statement in brief. | <b>4</b> |
|           | c)  | What is the use of void? Explain.                               | <b>4</b> |
|           | d)  | Write a note on command line Argument.                          | <b>4</b> |

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