1MCM4 - Programming Techniques With C Paper-IV

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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) Explain the difference between algorithm and flowchart. Write the advantages and disadvantages of flowchart.   **8**

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

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OR

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     c) Draw a flowchart to GCD of two numbers.   **8**

     d) What do you mean by operators ? Explain different types of operator in detail. **8**

Either

2. a) Explain different looping statement in C with proper syntax and suitable example. **8**

     b) Write a program to generate and print Fibonacci sequences.   **8**

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OR

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     c) What is the purpose of break and continue statement. Explain with suitable example. **8**

     d) Write a C program to find the number is palindrome or not.   **8**

Either

3. a) Explain the concepts of array in detail with its types.   **8**

     b) Write a program in C to search an inputed number from a given sorted array. **8**

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OR

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     c) What is function ? What is the purpose of return statement and keyword 'void' ? Explain with suitable example. **8**

     d) Differentiate between structure and union with example.   **8**

Either

4. a) Explain the concept of pointer in detail. How it is useful.   **8**

b) Explain the following with their syntax. **8**
   i) realloc ( )   ii) free ( )

OR

c) Write a program in C to find product and division of two numbers using pointers. **8**

d) Explain the concept of file. What are the various operations performed on files. **8**

5. Attempt all the questions.

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

   b) Explain ternary operator in detail with proper syntax and suitable example. **4**

   c) Explain any four string library functions. **4**

   d) Explain any two file handling function. **4**

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