

SECTION - A (5 X 2 = 10 Marks)

Answer any FIVE questions

- 1 a Give a brief history of C Language.
- b Define algorithm with a simple example.
- c Write a short note on the need of Nested Conditions.
- d What is logic to check whether the given number is prime or not?
- e Define Recursion.
- f Define Array.
- g Define object and list some real-world objects.
- h What is the need of Abstraction?

SECTION - B (5 X 10 = 50 Marks)

Answer ALL questions

- 2 A Explain various notations used in drawing a flowchart. Develop a flowchart to check whether the given number is perfect or not.
  - OR
  - B Explain various Data Types in C.
  - 3 A Compare While loop and Do-While loop with example programs.
  - OR
  - B Write a program to check whether given number is Armstrong or not. Explain the logic.
  - 4 A Explain call by value and call by reference with examples and illustrations.
  - OR
  - B Explain string handling functions in C.
  - 5 A Give a neat understanding of the need of pointer with illustrations and example program.
  - OR
  - B Explain the concept of Structure in C.
  - 6 A Discuss similarities and differences between C & C++.
  - OR
  - B Discuss OOPS Concepts with examples and illustrations.
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