Programming with C and C++

Important Questions

UNIT – I

1. What are programming languages? Explain generations and classification.

2. What is a flow chart? Explain with an example.

3. Define an algorithm. What are the characteristics of a good algorithm?

4. Explain Structure of a c program with an example?

5. What are tokens in C? Explain keywords, identifiers, constants, and operators.

6. Explain data types in C with examples.

7. What is type conversion? Differentiate implicit and explicit casting.

UNIT – II

1. Explain selection control statements: if, if-else, nested if, if-else ladder, switch.

2. Explain while, do-while, and for loops with flowcharts and examples.

3. Differentiate between break, continue, and goto statements.

4. Write a program to find factorial for a given number, using while statement.

UNIT – III:

1. Explain about different types of functions

2. What is a function? Explain different parts of function.

3. Explain call-by-value and call-by-reference with examples.

4. Explain recursive function.

5. What is an array? Explain about types of arrays with examples?

6. Explain character arrays and string functions (strlen, strcpy, strcmp, strcat, strrev) from string.h.

7. Explain about various Mathematical functions.

8.Explain about Date functions

9.Write a program to find the average of 'n' numbers in an array

10. Discuss various formatted and unformatted functions in C.

UNIT – IV

1. Write a program using structures to store student data (roll, name, marks).

2. How to access members of a structure using a pointer?

3. What are the pointers?explain arithmetic operators in c?

4. What is a union? How is it different from a structure?

5. Write a C program to copy content from one file to another.

6. What is a structure in C? How do you declare and use it?

7. Compare structure and union with examples.

8. What is an enumerated type? Give an example of its usage.

9. Discuss about array of structures with suitable examples.

UNIT - V

1. What is Encapsulation?
2. Explain Polymorphism with a suitable example.
3. Define Inheritance and its various types
4. What is Data Abstraction ?
5. Explain in detail about object oriented concepts.
6. Explain the different storage classes in C.
7. What do you mean by Local variable and Global Variable?
8. What are the member functions? Explain?