Question Bank

Function Concept:

1. What is a function in C++? Explain its purpose and significance in programming.
2. Describe the syntax used to define a function in C++.
3. Explain the difference between a function declaration and a function definition in C++.

Returning and Non-Returning Functions:

1. Define a returning function in C++. Provide an example and explain its usage.
2. Explain what a non-returning function is in C++. How does it differ from a returning function?

Parameterized and Non-Parameterized Functions:

1. Define and provide an example of a parameterized function in C++.
2. Discuss the concept of a non-parameterized function in C++. Give an example.

Call by Value and Call by Reference:

1. Explain the call by value mechanism in C++ functions. Provide an example and describe how it works.
2. Discuss the call by reference mechanism in C++. How is it different from call by value? Provide an example.

Function Overloading:

1. Define function overloading in C++. Provide an example demonstrating function overloading and explain its significance.
2. Explain the rules that need to be followed for function overloading to work effectively.

Inline Functions:

1. Describe inline functions in C++. What are their advantages? Provide an example demonstrating the use of an inline function.
2. Discuss the scenarios when using an inline function is beneficial.

Virtual Functions:

1. Define virtual functions in C++. How are they different from regular functions?
2. Describe the purpose and significance of using virtual functions in C++.
3. These questions cover a range of fundamental concepts related to functions in C++, including their definitions, types, mechanisms, and advanced concepts like function overloading, inline functions, and virtual functions.