**1. What is a virtual member function?**

A virtual member function in C++ is a function declared with the virtual keyword in a base class. It enables **runtime polymorphism**, meaning that the function to call is determined based on the type of the object being pointed to (not the type of the pointer). Virtual functions allow derived classes to override the functionality of base class functions, and they support late binding.

**2. A virtual function is re-defined in which of the following class?**

**b. Derived class**

**3. Late binding can be implemented by which of the following?**

**d. Both B and C**

**4. What will be the output of the following program?**

**a. 123**