

# 22 Lecture - CS304

## Important Mcqs

1. **Inheritance in C can be implemented using:**

- a) Structures and function pointers
- b) Classes and objects
- c) Inheritance keyword
- d) None of the above

**Answer: a) Structures and function pointers**

**Which of the following is not a type of inheritance?**

- a) Single inheritance
- b) Multiple inheritance
- c) Hierarchical inheritance
- d) Parallel inheritance

**Answer: d) Parallel inheritance**

**The derived class inherits:**

- a) All the properties and methods of the base class
- b) Only the properties of the base class
- c) Only the methods of the base class
- d) None of the above

**Answer: a) All the properties and methods of the base class**

**What is the syntax to define a derived structure in C?**

- a) struct Derived : Base {}
- b) struct Derived extends Base {}
- c) struct Derived : public Base {}
- d) struct Derived : private Base {}

**Answer: c) struct Derived : public Base {}**

**Inheritance is used to:**

- a) Achieve code reusability
- b) Encapsulate data
- c) Control access to data
- d) None of the above

**Answer: a) Achieve code reusability**

**Which type of inheritance allows a derived class to inherit from multiple base classes?**

- a) Single inheritance
- b) Multiple inheritance
- c) Hierarchical inheritance
- d) Hybrid inheritance

**Answer: b) Multiple inheritance**

**Which keyword is used to call the constructor of the base class from the derived class**

**constructor?**

- a) super
- b) base
- c) this
- d) parent

**Answer: b) base**

**Which type of inheritance involves creating a new class that inherits from a base class, and then creating another class that inherits from the new class?**

- a) Single inheritance
- b) Multiple inheritance
- c) Hierarchical inheritance
- d) Hybrid inheritance

**Answer: c) Hierarchical inheritance**

**Which of the following is not a benefit of inheritance?**

- a) Code reusability
- b) Improved maintainability
- c) Reduced coupling
- d) Increased code complexity

**Answer: d) Increased code complexity**

**Which of the following is an example of polymorphism?**

- a) Overriding a method in a derived class
- b) Calling a method from the base class
- c) Inheriting properties from a base class
- d) None of the above

**Answer: a) Overriding a method in a derived class**