

29 Lecture - CS201

Important Mcqs

1. **What is a friend function in C++?**

- A) A function declared inside a class that can only access public members
- B) A member function that can access private and protected members of another class
- C) A non-member function that is given access to the private and protected members of a class
- D) A global function that is restricted from accessing the data members of a class

Answer: C

2. **Which keyword is used to declare a friend function inside a class?**

- A) friend
- B) private
- C) public
- D) protected

Answer: A

3. **Can a friend function access the private members of a class?**

- A) Yes
- B) No

Answer: A

4. **Which of the following is an advantage of using friend functions?**

- A) It simplifies the implementation of certain operations
- B) It enhances encapsulation of class data
- C) It improves program maintainability
- D) It reduces code complexity

Answer: A

5. **Which of the following is a disadvantage of using friend functions?**

- A) It reduces encapsulation and can make the program harder to maintain
- B) It requires the use of complex syntax to declare and define the function
- C) It can lead to security vulnerabilities in the program
- D) It can only be used for simple operations and cannot handle complex tasks

Answer: A

6. **Can a friend function be a member function of another class?**

- A) Yes
- B) No

Answer: A

7. **What is the access level of a friend function in relation to the class it is declared in?**

- A) Private
- B) Protected
- C) Public
- D) It is not a member of the class, so access level does not apply

Answer: D

8. **Can a friend function be overloaded?**

- A) Yes
- B) No

Answer: A

9. **Can a friend function be declared in the private section of a class?**

- A) Yes
- B) No

Answer: A

10. **Which of the following is an example of a scenario where a friend function would be useful?**

- A) To add two numbers together
- B) To sort a list of objects
- C) To calculate the distance between two objects in a class
- D) To print the contents of a private data member

Answer: D