# 40 Lecture - CS201

# **Important Mcqs**

# 1. What is composition in C++?

- A. The process of defining classes
- B. The process of defining objects as class members
- C. The process of creating pointers
- D. The process of using inheritance

# Answer: B

#### 2. What is the purpose of defining objects as class members?

- A. To create complex data structures
- B. To access private data members of another class
- C. To define a new data type
- D. To implement inheritance

# Answer: A

#### 3. How are objects as class members constructed and destructed?

- A. They are never constructed or destructed
- B. They are constructed and destructed along with the parent object
- C. They are constructed and destructed separately from the parent object
- D. They are only destructed when the parent object is destructed

#### Answer: B

#### 4. How do you access an object that is a member of a class?

- A. Using the -> operator
- B. Using the :: operator
- C. Using the dot (.) operator
- D. Using the \* operator

# Answer: C

#### 5. Which relationship can be implemented using objects as class members?

- A. "is-a"
- B. "has-a"
- C. "inherits-from"
- D. "contains-a"

# Answer: B

#### 6. Can an object be a member of more than one class?

- A. Yes, but only if both classes are derived from the same base class
- B. No, an object can only be a member of one class

- C. Yes, an object can be a member of any number of classes
- D. Yes, but only if the classes are in the same namespace

# Answer: B

- 7. What happens if you try to assign one object to another object that is a member of a class?
  - A. The program crashes
  - B. A compiler error is generated
  - C. The object is copied to the new object
  - D. The object is deleted and a new object is created

# Answer: C

#### 8. Can you use objects as class members in a union?

- A. Yes, but only if the objects are of the same type
- B. No, objects cannot be used as class members in a union
- C. Yes, objects can be used as class members in a union
- D. Yes, but only if the union is in a namespace

# Answer: B

# 9. Can you use pointers to access objects that are members of a class?

- A. Yes, but only if the objects are public
- B. Yes, but only if the objects are static
- C. No, pointers cannot be used to access objects that are members of a class
- D. Yes, you can use pointers to access objects that are members of a class

# Answer: D

#### 10. How do you initialize an object that is a member of a class?

- A. Using the new operator
- B. Using the sizeof operator
- C. Using a constructor
- D. Using a destructor

Answer: C