

# 39 Lecture - CS304

## Important Mcqs

1. Which keyword is used to define a template in C++?

- a) template
- b) class
- c) typename
- d) all of the above

Answer: a) template

Which of the following is not a benefit of using templates in C++?

- a) Code reusability
- b) Improved efficiency
- c) Flexibility
- d) Simplified syntax

Answer: d) Simplified syntax

What is the purpose of static members in C++?

- a) To create class objects
- b) To provide a single instance of a variable for all class objects
- c) To define functions that can be accessed without creating an object
- d) To provide a way to create objects dynamically

Answer: b) To provide a single instance of a variable for all class objects

Which keyword is used to declare a static member in a class definition?

- a) static
- b) const
- c) friend
- d) virtual

Answer: a) static

Which of the following is true about static member functions in C++?

- a) They can be called using an object of the class.
- b) They cannot access non-static members of the class.
- c) They can only be declared in the private section of a class.
- d) They cannot be overloaded.

Answer: b) They cannot access non-static members of the class.

Which of the following is not a valid template parameter type in C++?

- a) int
- b) float
- c) void
- d) char\*

Answer: b) float

What is the purpose of the typename keyword in template definitions?

- a) To indicate a class type

- b) To indicate a function type
- c) To indicate a pointer type
- d) To indicate a void type

**Answer: a) To indicate a class type**

**Can a static member of a class be accessed using the class name and the scope resolution operator?**

- a) Yes
- b) No

**Answer: a) Yes**

**Can a template function be defined outside the class definition?**

- a) Yes
- b) No

**Answer: a) Yes**

**Which of the following is not a valid way to specialize a template function?**

- a) Explicit specialization
- b) Partial specialization
- c) Function overloading
- d) None of the above

**Answer: c) Function overloading**