



C++ Programming MCQs Test 5

This Test will cover complete C++ with very important questions, starting off from basics to advanced level.

Q. What is an exception specification?

- A. Declaration of the list of exceptions a function can throw using the throws clause.
- B. Requirements specification of how to handle exceptions in a program.
- C. Design specification of how to handle exception in a program.
- D. Specification document on exception handling implementation.

Correct Answer : OPTION A, Declaration of the list of exceptions a function can throw using the throws clause.

Q. Which of the following cannot be declared as template ?

- A. Global functions
- B. Classes
- C. Member functions
- D. Macros

Correct Answer : OPTION D, Macros. Macros are implemented in a preprocessor and cannot be implemented as a template. Functions and classes can be declared as templates.

Q. Which of the following is true about `const` member functions?

- A. const members can be invoked on both const as well as nonconst objects
- B. const members can be invoked only on const objects and not on nonconst objects
- C. nonconst members can be invoked on const objects as well as nonconst objects
- D. none of the above

Correct Answer : OPTION A, const members can be invoked on both const as well as nonconst objects

Q. When is `std::bad_alloc` exception thrown?

- A. When new operator cannot memory.
- B. When alloc function fails
- C. When type requested for new operation is considered bad, this exception is thrown
- D. When delete operator cannot delete the allocated(corrupted) object.

Correct Answer : OPTION A, When new operator cannot memory.

Q. Which header file should we include for using `std::auto_ptr` ?

- A. memory
- B. alloc
- C. autoptr
- D. smartptr

Correct Answer : OPTION A, memory

Q. Which of the following member is not automatically provided by the compiler if the programmer does not provide it explicitly?

- A. Constructor
- B. Destructor
- C. Equality operator ==
- D. Assignment operator =

Correct Answer : OPTION C, Equality operator(==)

Q. What is the default inheritance type when no access specifier is explicitly specified for the base class?

- A. internal
- B. public
- C. private
- D. protected

Correct Answer : OPTION C, private

Q. Which of the following casting operators use RTTI(Runtime Type Identification)?

- A. const_cast
- B. static_cast
- C. dynamic_cast
- D. reinterpret_cast

Correct Answer : OPTION C, dynamic_cast. The dynamic_cast operator uses the runtime information about the type of the object for performing the cast.

Q. STL is based on which of the following programming paradigm?

- A. Structured Programming
- B. Object Oriented Programming(OOP)
- C. Functional Programming
- D. Aspect Oriented Programming(AOP)

Correct Answer : OPTION C, Functional Programming

Q. Which of the following correctly describes the meaning of namespace feature in C++?

- A. Namespaces refer to the memory space allocated for names used in a program.
- B. Namespaces refer to space between the names in a program.
- C. Namespaces refer to packaging structure of classes in a program.
- D. Namespaces provide facilities for organizing the names in a program to avoid name clashes.

Correct Answer : OPTION D, Namespaces provide facilities for organizing the names in a program to avoid name clashes.

Q. Which of the following is the most general exception handler that catches exception of 'any type'?

- A. `catch(std::exception)`
- B. `catch(std::any_exception)`
- C. `catch(...)`
- D. `catch()`

Correct Answer : OPTION C, catch(...)

Q. Which of the following operators can be implemented as a non-member operator?

- A. = (assignment operator)
- B. () (function call operator)
- C. [] (array access operator)
- D. + (addition operator)

Correct Answer : OPTION D, +(addition operator)

Q. Which of the STL containers store the elements contiguously (in adjacent memory locations)?

- A. `std::vector`
- B. `std::list`
- C. `std::map`
- D. `std::set`

Correct Answer : OPTION A, `std::vector`. The vector is a dynamic array that can grow(or shrink) as needed. It stores the elements contiguously.

Q. Which of the following members occupy space in `xyz` object?

```
class XYZ {  
    int mem1;  
    static int mem2;  
    static void foo() { }  
    void bar() { }  
} xyz;
```

- A. `int mem1;`
- B. `static int mem2;`

C. `static void foo(){ }`

D. `void bar(){ }`

Correct Answer : OPTION A, `int mem1`; Nonstatic data members occupy space in objects. Static members or member functions do not occupy any space in an object.

Q. Which of the following operators is used to obtain the dynamic type of an object/class?

A. `dynamic_cast`

B. `typeid`

C. `typeof`

D. `std::type_info`

Correct Answer : OPTION B, `typeid`

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