



OOPS MCQ

Q-1 Which of the following in Object Oriented Programming is supported by Function overloading and default arguments features of C++?

- A) Inheritance
- B) Abstraction
- C) Polymorphism
- D) Abstraction

Q-2 Which of the following is incorrect with respect to constructors in C++?

- A) A constructor can call member function of its class.
- B) If the default constructor is defined explicitly then, compiler will not define the constructor implicitly, it calls the constructor implicitly.
- C) A constructor cannot dynamically allocate for an object at the time of their construction.
- D) These cannot be static

Q-3 Predict the output?

```
#include <iostream> using namespace std;
class Test {
int x; Test() {
x = 5;
}

};

int main() {
```

```
Test *t = new Test;
```

```
cout << t->x;  
}
```

- A) 0
- B) 5
- C) Garbage value
- D) Compiler error

Q-4 Which of the following is correct for virtual function in C++ ? (More than one)

- a) Must be declared in public section of class.
- b) Virtual function can be static.
- c) Virtual function should be accessed using pointers.
- d) Virtual function is defined in base class.

Q-5 Multiple inheritance leaves room for a derived class to have _____ members.

- A) Dynamic
- B) Private
- C) Public
- D) Ambiguous

Q-6 What makes a class abstract?

- A) The class must not have method definitions.
- B) The class must have a constructor that takes no arguments.
- C) The class must have a function definition equal to zero.
- D) The class which cannot be instantiated as they are mainly for inheritance.

Q-7 When two or more classes serve as base class for a derived class, the situation is known as _____.

- A) multiple inheritance
- B) Inheritance
- C) Encapsulation
- D) hierarchical inheritance

Q-8 _____ allows for the separation of object interactions from classes and inheritance into distinct layers of abstraction

- A) Dispatching
- B) Loosening
- C) Detaching
- D) Decoupling

Q-9 What is the use of parametric polymorphism?(more than one)

- A) A function or a data type can be written generically so that it can handle values identically without depending on their type
- B) A function or a data type can be written generically so that it can handle values identically being dependant on their type
- C) A function or a data type that can accept parameters
- D) Both a and c

Q-10 Which of the following is false for friend function?

- A) Allows access to private or protected data in a class from outside the class
- B) both a and c
- C) Too many friend functions may hamper data security
- D) When a function needs to operate on private data in objects from two different classes, the function can be declared as a friend in any of the classes

Q-11 The _____ functions of the base class are also not inherited

- A) friend
- B) Pure virtual function
- C) Both a and b

D) Virtual function

Q-12 _____ is actually a parameterized constructor which takes some parameters in order to create instance of a class.

- A) Implicit constructor
- B) Explicit constructor
- C) Virtual constructor
- D) Parameterized constructor

Q-13 Which of the following is false for a destructor?

- A) The destructor has the same name as the class
- B) If the object was created with a new expression, then its destructor is called when the delete operator is applied to a pointer to the object
- C) Its main purpose is to clean up and to free the resources
- D) none

Q-14 Which of the following is true about virtual functions in C++.

- A) Virtual functions are functions that can be overridden in derived class with the same signature.
- B) Virtual functions enable run-time polymorphism in a inheritance hierarchy.
- C) If a function is 'virtual' in the base class, the most-derived class's implementation of the function is called according to the actual type of the object referred to, regardless of the declared type of the pointer or reference. In non-virtual functions, the functions are called according to the type of reference or pointer.
- D) All of the above

Q-15 Which of the following are true about static member function?

- 1) They can access non-static data members
- 2) They can call only other static member functions
- 3) They can access global functions and data
- 4) They can have this pointer
- 5) They cannot be declared as const or volatile

Q-16 Which of the following is the correct class of the object cout?

- A) iostream
- B) Istream
- C) Ostream
- D) ifstream

Q-17 Which of the following problem causes an exception?

- A) Missing semicolon in statement in main().
- B) A problem in calling function
- C) A syntax error
- D) A run-time error