

Z







Quiz >

Review answers

Start date:	10 minutes ago
Complete date:	1 minute ago
Question 1:	Which statement is <u>false</u> about an abstract class?
	 Abstract classes cannot be instantiated. Abstract classes enable us to work uniformly with a set of related classes. Abstract classes can only have function declarations, no function
	implementations. O Abstract classes can contain member data.
Question 2:	Which statement is <u>false</u> about interfaces?
	 A function working with an interface can work with any set of unrelated classes as long as they implement that interface. There is not interface construct in C++ but they can be emulated using abstract classes/functions. Interfaces can be used instead of inheritance when there is no 'ISA' relation. Interfaces are allowed to provide default implementations.
Question 3:	Which statement is true about destructors and inheritance?
	 Destructors must be virtual so that derived class objects in a base class variable will be deleted correctly. Destructors must be virtual because the canonical header file requires that. The system provided destructor is always called correctly. Destructors must be virtual so that the base class destructor is called when a derived class object is removed from memory.
Question 4:	Which statement is <u>true</u> about aggregation (open diamond shape in UML) and composition (filled diamond shape in UML)

- O Aggregation embeds multiple objects while composition only embeds one object.
- O With aggregation the lifetime of the embedded object is the same as the 'outer' object while with composition the lifetime can be different.
- O There is no difference between aggregation and composition.

Question 5:

Which statement is true about inheritance?

- O Friends of the base class are also friends of the derived class.
- Operator functions of the base class are not inherited.
- O All member of the base class are inherited.
- All members of the base class are inherited except the constructors, destructor and assignment operator.

Question 6:

Which statement is false about aggregation?

- O Aggregation can hide the functionality of the aggregated object.
- O Aggregation is a special kind of inheritance.
- Aggregation is often combined with delegation to delegate functionality to another object.
- O With aggregation you create an object that consists of one or more other objects.

Question 7:

What is the output of the following program?

```
C++:
    class A
 1
 2
     {
 3
    private:
 4
      int m_da;
 5
 6
    public:
       A(int da): m_da(da) {}
 7
 8
       int GetA() { return m_da; }
       A& operator = (const A& source)
 9
       { m_da=source.m_da; return *this; }
10
    };
11
12
     class B: public A
13
14
    private:
15
16
       int m_db;
                              888
```

10, 2030, 2030, 40

② 10, 40

Question 8:

Which of the options below implements the default constructor of class B that calls the default constructor of base class A?

⊘ B::B(): A() { }○ B::B(): super() { }○ B::B(): () { }○ B::B(): base() { }

Question 9:

What is the output of the following program?

```
C++:
     class A
 1
 2
     {
 3
    public:
       std::string F() { return "A"; }
 4
 5
     };
 6
     class B: public A
 7
 8
    public:
 9
       std::string F() { return "B"; }
10
11
    };
12
13
     int main()
14
       A a; B b;
15
16
       A* ap;
                              888
```

- O This code does not compile.
- O A, A, A, A
- O A, B, A, B
- ⊗ A, B, A, A

Question 10:

What is the output of the following program?

```
class A
1
2
    {
3
    private:
      virtual int GetValue() { return 10; }
4
5
6
    public:
      int Calculate() { return GetValue()*1.5; }
 7
8
    };
9
    class B: public A
10
11
    {
    private:
12
      virtual int GetValue() { return 20; }
13
14
   };
                             888
```

O 30, 30

② 15, 30

O This program does not compile.

O 15, 15

Score:

7 (70.00%)

Pass/Fail:

Failed

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