Quiz 12 Answers

- In order to use a dynamic_cast<> in a C++ program, runtime type information must be enabled.

 true
- 2. In C++, a call to a virtual method though a base class pointer to a derived class object will use dynamic binding / dynamic linkage.
- 3. With public inheritance, the protected members of a base class can be accessed by All of the above.
- 4. What is the C++ syntax for declaring the class Dog to be a derived class of the base class Pet?
 class Dog : public Pet
- 5. When a derived class object is destroyed, in what order are the destructors executed?

 First the derived class destructor is executed, then the base class destructor is executed.
- 6. In C++, what is a pure virtual method?

A pure virtual method has no definition, just a prototype.

7. In C++, what is an *abstract* class?

An abstract class is a class that contains at least one pure virtual method.

8. Assume that Pet is a base class, and Cat is a class derived from Pet using public inheritance. What is the correct way to call the print() method of the Pet class from the print() method of the Cat class?

```
Pet::print();
```

- 9. When a derived class object is created, in what order are the constructor bodies executed?
 First the base class constructor body is executed, then the derived class constructor body is executed.
- 10. A base class pointer that points to a derived class object can be used to call only methods declared in the base class.