1. In the statement `class car : public vehicle`, which is the base class?
   a. Car   b. vehicle   c. public   d. class

2. ________ allows us to create new classes based on existing classes.
   a. Polymorphism   b. Inheritance   c. Function overloading   d. The copy constructor

3. When you derive a class from an existing class, you ________ add new data and functions.
   a. may never   b. may sometimes   c. may   d. None of these

4. ________ members of a base class are never accessible to a derived class.
   a. Public   b. Private   c. Protected   d. a, b, and c   e. None of these

5. The ________ constructor is called before the ________ constructor.
   a. base, derived   b. derived, base   c. public, private   d. private, public

6. A ________ of a base class expects to be overridden in a derived class.
   a. constructor function   b. destructor function   c. static function   d. virtual function

7. The term ________ means the ability to take many forms.
   a. inheritance   b. polymorphism   c. member function   d. encapsulation

8. __________ to a base class may be assigned the address of a derived class object.

9. The base class access specification determines how ________ members in the base class may be accessed by derived classes.
   a. Public   b. Private   c. Protected   d. a, b, and c   e. None of these

10. When a derived class has two or more base classes, the situation is known as ________.
    a. multiple inheritance   b. polymorphism   c. encapsulation   d. access specification

11. Arguments are passed to the base class destructor function by the ________ class ________ function.
    a. derived, constructor   b. derived, destructor   c. base, constructor   d. base, destructor   e. None of these

12. In an inheritance situation, the new class that you create from an existing class is known as the ________.
    a. derived class   b. inheritee   c. child class   d. a and c   e. None of these

13. The base class's ________ affects the way its members are inherited by the derived class.
    a. name   b. return data type   c. access specification   d. All of these

14. Protected members of a base class are like ________, but they may be accessed by derived classes.
    a. constructor functions   b. static members   c. private members   d. public members
15. The following statement: class Car : private Vehicle allows the __________ members of the Car class to access __________ members of the Vehicle class.
   a. private, private  
b. public, private  
c. protected, private  
d. public, protected  
e. None of these

16. The _______ destructor is called before the _______ destructor.
   a. base, derived  
b. derived, base  
c. public, private  
d. private, public

17. ___________ is commonly used to extend a class, or to give it additional capabilities.
   a. Inheritance  
b. Privacy  
c. The constructor  
d. The destructor

18. When member functions behave differently, depending upon which object performed the call, this is an example of ___________.
   a. chaos theory  
b. virtual insubordination  
c. polymorphism  
d. encapsulation

19. A virtual function is a member function that expects to be __________ in a derived class.
   a. ignored  
b. called frequently  
c. overridden  
d. private  
e. None of these

20. A virtual function is declared by placing the keyword _______ in front of the return type in the base class’s function declaration.
   a. virtual  
b. private  
c. public  
d. protected  
e. None of these

21. In the following statement: class Car : protected Vehicle which is the derived class?
   a. Car  
b. Vehicle  
c. protected  
d. cannot be determined  
e. None of these

22. In the following statement: class car : protected vehicle what is being protected?
   a. derived class functions  
b. base class members  
c. derived class data  
d. future inherited classes

23. Polymorphism is when ___________ in a class hierarchy perform differently, depending upon which object performs the call.
   a. base class constructors  
b. member functions  
c. derived class destructors  
d. derived class constructors

24. ___________ functions are dynamically bound by the compiler.
   a. Constructor  
b. Destructor  
c. Static  
d. Virtual  
e. None of these

TRUE/FALSE
25. True/False: In an inheritance situation, you may not pass arguments to a base class constructor.

26. True/False: More than one class may be derived from a base class.
27. **True/False**: A derived class may become a base class, if another class is derived from it.

28. **True/False**: The base class access specification can be viewed as a filter that base class members must pass through when becoming inherited members of a derived class.

29. **True/False**: When arguments must be passed to the base class constructor, they are passed from the derived class constructor's header line.

30. **True/False**: A member function of a derived class may not have the same name as a member function of a base class.

31. **True/False**: Static binding occurs when the compiler binds a function call with the function call that resides in the same class as the call itself.

32. **True/False**: Pointers to a base class may be assigned the address of a derived class object.

33. **True/False**: A derived class may not have any classes derived from it.