| OM | EWORK #5 | CS 2255 | | | Fall 2012 | | | |
|---|--|---------------------|----------------------------------|------------------------|------------------------------|--|--|--|
| 1. | In the statement class | s car : public | vehicle, wh | ich is the ba | se class? | | | |
| | a. Car b | o. vehicle | c. public | d. | class | | | |
| 2 | allows us to | create new classe | es based on ex | isting classe | S. | | | |
| | a. Polymorphism | b. Inheritance | c. Function ov | /erloading | d. The copy constructor | | | |
| 3. | When you derive a cla | ss from an existin | g class, you | add | new data and functions. | | | |
| | a. may never b. may sometimes | | | . may d. None of these | | | | |
| 4. | members of a base class are never accessible to a derived class. | | | | | | | |
| | a. Public b. Priva | te c. Protec | ted 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 fu | inction c. st | atic function | d. virtual function | | | |
| 7. | | | | | | | | |
| | a. inheritance | b. polymorphism | c. mer | nber function | d. encapsulation | | | |
| 8to a base class may be assigned the address of a derived class object. | | | | | | | | |
| | a. Access specifiers | b. Static membe | ers c. Priv | ate members | d. Pointers | | | |
| 9. The base class access specification determines how members in the base cl may be accessed by derived classes. | | | | | | | | |
| | a. Public b. Priv | ate c. Prot | ected d. a | ı, b, and c | e. None of these | | | |
| 10. When a derived class has two or more base classes, the situation is known as | | | | | | | | |
| i | a. multiple inheritance | b. polymorphi | sm c. enc | apsulation | d. access specification | | | |
| 11. | Arguments are passe function. | d to the base clas | s destructor fu | nction by the | e class | | | |
| | a. derived, constructor d. base, destructor | | rived, destructor ne of these | | c. base, constructor | | | |
| 12. | In an inheritance situa | ation, the new clas | ss that you crea | ate from an e | xisting class is known as th | | | |
| | a. derived class | b. inheritee | c. child class | d. a ar | e. None of these | | | |
| 13. | The base class's | affects the | e way its memb | ers are inher | rited by the derived class. | | | |
| | a. name b. r | eturn data type | c. access | specification | n d. All of these | | | |
| 14. | Protected members o classes. | f a base class are | like | , but they ma | ay be accessed by derived | | | |
| | a. constructor functions | b. static mer | nbers c. p | rivate membe | d. public members | | | |

| 15. | . The following statement: | | class Car : private Vehicle | | | | | | |
|---|---|-----------------------------|----------------------------------|---|------------------|--|--|--|--|
| | allows the Vehicle class | members of the | Car class to acc | 9SS I | members of the | | | | |
| | a. private, privat d. public, protec | | public, private None of these | c. pr | otected, private | | | | |
| 16. | The o | destructor is called befo | ore the de | structor. | | | | | |
| | a. base, derived | b. derived, base | c. public, p | rivate d. p | private, public | | | | |
| 17. | is commonly used to extend a class, or to give it additional capabilities. | | | | | | | | |
| | a. Inheritance | b. Privacy | c. The constru | uctor d. T | he destructor | | | | |
| 18. | 8. When member functions behave differently, depending upon which object performed the call, this is an example of | | | | | | | | |
| | a. chaos theory | b. virtual insubordi | nation c. po | lymorphism | d. encapsulation | | | | |
| 19. | A virtual functi | on is a member function | n that expects to b | e 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. pu | ıblic d. prot | ected e. No | ne of these | | | | |
| 21. In the following statement: class Car : protected Vehicle | | | | | | | | | |
| | which is the de | which is the derived class? | | | | | | | |
| | a. Car b. | . Vehicle c. protec | ted d. cannot | be determined | e. None of these | | | | |
| 22. | 22. In the following statement: class car : protected vehicle | | | | | | | | |
| | what is being protected? | | | | | | | | |
| | a. derived class c. derived class | | | b. base class members d. future inherited classes | | | | | |
| 23. | 23. Polymorphism is when in a class hierarchy perform differently, depending upor which object performs the call. | | | | | | | | |
| | a. base class co c. derived class | | | | | | | | |
| 24. | 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.