CHAPTER 09: CLASSES AND OBJECTS

REVIEW QUESTIONS:

1.	An object is a(n) of a class.
	a. child
	b. institution
	c. instantiation
	d. relative
2.	A class header or class definition can contain all of the following except
	a. an optional access modifier
	b. the keyword class
	c. an identifier
	d. initial field values
3.	Most fields in a class are created with the modifier.
	a. public
	b. protected
	c. new
	d. private
4.	Most methods in a class are created with the modifier.
	a. public
	b. protected
	C. new
	d. private
5.	Instance methods that belong to individual objects are static methods.
	a. always
	b. usually

	c. occasionally
	d. never
6.	To allocate memory for an object instantiation, you must use the operator
	a. mem
	b. alloc
	c. new
	d. instant
7.	Assume that you have created a class named MyClass. The header of the MyClass
	constructor can be
	a. public void MyClass()
	b. public MyClassConstructor()
	c. Either of these can be the constructor header.
	d. Neither of these can be the constructor header.
8.	Assume that you have created a class named MyClass. The header of the MyClass
	constructor can be
	a. public MyClass()
	b. public MyClass (double d)
	c. Either of these can be the constructor header.
	d. Neither of these can be the constructor header.
9.	Assume that you have created a class named DemoCar. Within the Main() method of
	this class, you instantiate a Car object named myCar and the following statement
	executes correctly:
	WriteLine("The Car gets {0} miles per gallon", myCar.ComputeMpg());
	Within the Car class, the ComputeMpg() method can be
	a. public and static
	b. public and nonstatic
	c. private and static

10.	Assume that you have created a class named TermPaper that contains a character field
	named letterGrade. You also have created a property for the field. Which of the
	following cannot be true?
	a. The property name is letterGrade.
	b. The property is read-only.
	c. The property contains a set accessor that does not allow a grade lower than 'C'.
	d. The property does not contain a get accessor.
11.	A this reference is
	a. implicitly passed to nonstatic methods
	b. implicitly passed to static methods
	c. explicitly passed to nonstatic methods
	d. explicitly passed to static methods
12.	When you use an instance variable within a class's nonstatic methods, you
	explicitly refer to the method's this reference.
	a. must
	b. can
	c. cannot
	d. should (even though it is not required)
13.	A class's default constructor
	a. sets numeric fields to 0
	b. is parameterless
	c. both of these
	d. none of these
14.	Assume that you have created a class named Chair with a constructor defined as
	Chair(int height). Which of the following overloaded constructors could coexist with the
	Chair constructor without ambiguity?

d. private and nonstatic

b. Chair(int height, int legs)
c. both of these
d. none of these
15. Which of the following statements correctly instantiates a House object if the House
class contains a single constructor with the declaration House(int bedrooms, double
price)?
a. House myHouse = new House();
b. House myHouse = new House(3, 125000.00);
c. House myHouse = House(4, 200000.00);
d. two of these
16. You explicitly call a destructor
a. when you are finished using an object
b. when an object goes out of scope
c. when a class is destroyed
d. You cannot explicitly call a destructor.
17. In a program that creates five object instances of a class, the constructor executes
time(s) and the destructor executes time(s).
a. one; one
b. one; five
c. five; one
d. five; five
18. Suppose that you declare a class named Furniture that contains a string field named
woodType and a conventionally named property with a get accessor. When you declare
an array of 200 Furniture objects named myChairs, which of the following accesses the
last Furniture object's wood type?
a. Furniture.Get(woodType[199])
b. myChairs[199].WoodType()

a. Chair(int legs)

- c. myChairs.WoodType[199]d. myChairs[199].WoodType
- 19. A collection of methods that can be used by any class, as long as the class provides a definition to override the collection's do-nothing, or abstract, definitions is _____
 - a. a superclass
 - b. a polymorph
 - c. a perimeter
 - d. an interface
- 20. When you create a class and want to include the capability to compare its objects so they can use the Array.Sort() or Array.BinarySearch() method, you must ______.
 - a. include at least one numeric field within the class
 - b. write a CompareTo() method for the class
 - c. be careful not to override the existing IComparable.CompareTo() method
 - d. Two of these are true.