Quiz II_2_1

Choose the correct answer.(Maybe more than one answer)

1. What is an abstract class?
   a. An abstract class is one without any child classes.
   b. An abstract class is any parent class with more than one child class.
   c. abstract class is class which cannot be instantiated, but can be a base class.
   d. An abstract class is another name for "base class."

2. What is an abstract method?
   a. An abstract method is any method in an abstract class.
   b. An abstract method is a method which cannot be inherited.
   c. An abstract method is one without a body that is declared with the reserved word abstract.
   d. An abstract method is a method in the child class that overrides a parent method.

3. Can an abstract class define both abstract methods and non-abstract methods?
   a. No—it must have all one or the other.
   b. No—it must have all abstract methods.
   c. Yes—but the child classes do not inherit the abstract methods.
   d. Yes—the child classes inherit both.

4. Can an abstract parent class have non-abstract children?
   a. No—an abstract parent must have only abstract children.
   b. No—an abstract parent must have no children at all.
   c. Yes—all children of an abstract parent must be non-abstract.
   d. Yes—an abstract parent can have both abstract and non-abstract children.

5. Which of the following is FALSE about abstract classes in Java.
   a. If we derive an abstract class and do not implement all the abstract methods, then the derived class should also be marked as abstract using 'abstract' keyword.
   b. Abstract classes can have constructors.
   c. A class can be made abstract without any abstract method.
   d. A class can inherit from multiple abstract classes.
6. Which of the following is true about interfaces in java.
   a. An interface is similar to a class, but can only contain following type of members.
   b. ....public, static, final fields (i.e., constants)
   c. ....public, abstract methods (i.e., just method headers, no bodies)
   d. An instance of interface can be created.
   e. A class can implement multiple interfaces.
   f. Many classes can implement the same interface.

7. Pick the incorrect statement:
   a. A class can implement more than one interface
   b. A class can extend more than one classes
   c. An interface can extend more than one interfaces
   d. An interface cannot extend a class

8. A sub-class placed in a different package than the super-class.
   You want to allow the sub-class to access a method defined in the super-class. The correct access specifier(s) for this method is/are:
   a. public only
   b. protected only
   c. public and protected
   d. private, public and protected

9. The only fields that can appear in an interface must be declared static or final.
   a. True
   b. False

10. Methods in an interface are implicitly protect.
    a. True
    b. False

11. Can an interface inherits from another interface.
    a. True
    b. False

12. Can an abstract class inherits from another interface.
    a. True
    b. False

13. Can a class implements one interface.
    a. True
    b. False

    a. True
    b. False

15. public interface Hockey extends Sports,Football.
    Is that correct?
    a. True
    b. False