SAMPLE EXAM QUESTIONS

Write the	letter of the best answer in the blank to the left.
	A certain Java/CN1 class named "Point" has constructors "Point()" and x, int y)". This is an example of
B. C. D	abstraction encapsulation inheritance overloading overriding
	A certain Java/CN1 class named Sphere contains a method named getColor() urns the color of the Sphere object. This method is an example of a (an)
B. C. D	accessor mutator aggregation design pattern abstraction
defines a A. Metho	A certain Java/CN1 class named "B" extends another class named "A". Class B method named "C" with the same signature as that of a method named "C" in Class of C in Class B does not contain the keyword "super". A program constructs an of B and invokes method "C" in that object. The code which will be executed as a his invocation is
B. C. D	the code in A.C the code in B.C the code in A.C followed by the code in B.C the code in B.C followed by the code in A.C it depends on the code in A.C and B.C
	If a Java/CN1 program contains a declaration such as "class A {}", where "" is the code defining the class, then
B. C D	A has no parent class A is its own parent A is a superclass of Object A is a subclass of Object A is an abstraction of Object

5)	_	In Java/CN1, inheritance is indicated using the keyword
	A.	abstract
	В.	extends
	C.	implements
	D.	static
	E.	new
6)		Before Java 8, an interface consists of
	A.	a set of method declarations (abstract methods)
	В.	a set of method definitions (implementations)
	C.	a class description given in an online Application Programming Interface (API)
	D.	the set of classes in an inheritance hierarchy
	E.	a set of accessor (selector and/or mutator) methods
		In a UML Class Diagram depicting classes named "Student" and "Course", a label kes" on the diagram would most likely represent
	Α.	a method in Student
		a method in Course
		an association
		a multiplicity
		a composition
. —		In CN1, when one object is registered as containing the method(s) to be invoked ther object generates an "ActionEvent", we say the first object is a (an)
	Α.	event generator
		action performer
	C.	listener
	D.	layout manager
	Ε.	exception handler
9) by A bu		An association between two objects named "A" and "B" such that (1) B is referenced ot by any other object, and (2) the lifetime of B is controlled by A, is called a (an)
	٨	Composition
		Aggregation
		Abstraction
		Encapsulation
		Inheritance

10) <i>A</i>	A CN1 build-in class Container is a
B. la C. d	omponent ayout manager lesign pattern
	ramework one of the above
□. II	one of the above
counter valu	A class Counter defines a method increment(int amount) which increments the see by the specified amount. A class UnitCounter extends Counter and specifies a ement(int amount) which ignores the value of amount and always increments the see by 1. Which category of inheritance usage would be the best fit for this program?
A. e	xtension
	pecialization
	pecification
	nore than one of the above one of the above
L. 11	one of the above
define how to defining the	A class Vehicle declares that every instance has a way to turn itself (but it does not the instances are turned). A class Truck extends Vehicle and contains a method way in which the Truck is turned. Which category of inheritance usage would be the his program?
A. e	xtension
B. s	pecialization
	pecification
	nore than one of the above
E. n	one of the above
AlarmClock	A class Clock defines methods for keeping track of the current time. A class extends Clock and defines methods for enabling and disabling an alarm to go off at the category of inheritance usage would be the best fit for this program?
A. e	xtension
	pecialization
	pecification
D m	nore than one of the above

E. none of the above

14) A program should not be allowed to create multiple AudioPlayer objects. Which design pattern would be the best fit for this program?
A. iterator B. composite C. singleton D. observer E. command
15) A program uses a Vector to store a collection of objects, but the programmer wants to make sure that any subsequent decision to replace the use of Vector with some other data structure will not break any existing clients which use the collection. Which design pattern would be the best fit for this program?
A. strategy B. proxy C. factory D. iterator E. composite
[THERE WOULD BE MORE MULTI-CHOICE QUESTIONS IN THE REAL EXAM]