12/9/2019 Quiz: CSA C.9 Practice

## **CSA C.9 Practice**

Started: Dec 6 at 1:14pm

## **Quiz Instructions**

2 attempts

Highest score is counted

Question 1	100 pts
The only limitation that static methods have is	
they cannot refer to nonstatic members of the class	
they can only be called from static members of the class	
they must be declared outside of the class	
they can refer only to nonstatic members of the class	

A class that is defined inside another class is called a(n) \_\_\_\_\_.

enumerated class

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<ul><li>nested class</li></ul>			
<ul><li>helper class</li></ul>			
inner class			

Question 3	100 pts
Static methods can only operate on fields.	
○ local	
○ instance	
static	
○ global	

## Which of the following is *not* true about static methods? It is not necessary for an instance of the class to be created to execute a static method. They are called from an instance of the class. They are often used to create utility classes that perform operations on data but have no need to collect and store data.

They are called by placing the key word static after the access specifier in the method header.

Question 5	100 pts
When a reference variable is passed as an argument to a method	
the method becomes a static method	
a copy of the variable's value is passed into the method's parameter	
the program terminates	
the method has access to the object that the variable references	

Question 6	100 pts
When a method's return type is a class, what is actually returned to the calling program?	
the values in the object that the method accessed	
onothing - the return type is simply for documentation in this situation	
a reference to an object of that class	
an object of that class	

A static field is created by placing the key word static \_\_\_\_\_.

after the access specifier and before the field's data type

after the access specifier and the field's data type

in brackets, before the field's data type

after the field name

Question 8	100 pts
When a field is declared static there will be	
a copy of the field for each method in the class	
a copy of the field in each class object	
two reference copies of the field for each method in the class	
only one copy of the field in memory	

If the this variable is used to call a constructor, \_\_\_\_\_.

nothing will happen

a compiler error will result if it *is* the first statement of the constructor

a compiler error will result if it *is not* the first statement of the constructor

the this variable cannot be used as a constructor call

Question 10	100 pts
To compare two objects in a class,	
<pre>use the == operator (for example, object1 == object2)</pre>	
write a method to do a byte-by-byte compare of the two objects	
write an equals method that will make a field by field compare of the two objects	
This cannot be done since objects consist of several fields.	

Question 11 100 pts

If you attempt to perform an operation with a null reference variable \_\_\_\_\_.

the resulting operation will always be zero

the results will be unpredictable

the program will terminate/crash

Java will create an object to reference the variable

Question 13 100 pts

If you have defined a class, SavingsAccount, with a public static data member named numberOfAccounts, and created a SavingsAccount object referenced by the variable account20, which of the following will assign numberOfAccounts to numAccounts?

- numAccounts = SavingsAccount.numberOfAccounts;
- numAccounts = account20.numAccounts;
- numAccounts = numOfAccounts;
- numAccounts = account20;

12/9/2019

Question 14 100 pts

Assume the class BankAccount has been created and the following statement correctly creates an instance of the class.

BankAccount account = new BankAccount(5000.00);

What is true about the following statement?

System.out.println(account);

- The method will display unreadable binary data on the screen.
- A runtime error will occur.
- The account object's toString method will be implicitly called.
- A compiler error will occur.

If the following is from the method section of a UML diagram, which of the statements below is true?

+ equals (object2:Stock) : boolean

This is a public method that returns a reference to a String object.

This is a private method that returns a boolean value.

This is a private method that receives two objects from the Stock class and returns a boolean value.

This is a public method that accepts a Stock object as its argument and returns a boolean value.

Given the following method header, what will be returned from the method?

public Rectangle getRectangle()

a graph of a rectangle

an object of the class Rectangle

the address of an object of the Rectangle class

the values stored in the data members of the Rectangle object

Question 17	100 pts
The key word this is the name of a reference variable that an object can use to refer to itself.	
True	
○ False	

Question 18	100 pts
An instance of a class does not have to exist in order for values to be stored in a class's static fields.	
True	
○ False	

Question 19	100 pts
A class's static methods do not operate on the fields that belong to any instance of the class.	
○ False	
True	

Question 20	100 pts
If you write a toString method for a class, Java will automatically call the method any time you concatenate of the class with a string.	e an object
<ul><li>True</li></ul>	
○ False	

100 pts
ssed.

Question 22 100 pts

Both instance fields and instance methods are associated with a specific instance of a class, and they cannot be used until an instance of the class is created.

○ False	
<ul><li>True</li></ul>	

A single copy of a class's static field is shared by all instances of the class.

True
False

When an object reference is passed to a method, the method may change the values in the object.

True
False

Question 25

If you write a toString method to display the contents of an object, object1, for a class, Class1, then the following two statements are equivalent:

System.out.println(object1);
System.out.println(object1.toString());

False

True

No new data to save. Last checked at 11:46pm

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