

CSA Quarter 1 (2 of 3)

Started: Oct 12 at 4:47pm

Quiz Instructions

2 attempts

Best score

This Practice is NOT comprehensive; the Midterm is NOT a subset of this Practice.

Question 1

100 pts

A constructor is a “method” that is called when an object is created.

☒ True

☐ False

Question 2

100 pts

Methods are commonly used to break a problem into small manageable pieces.

☒ False

☐ True

Question 3

100 pts

The contents of a variable cannot be changed while the program is running.

☐ True

☒ False

Question 4**100 pts**

To indicate the data type of a variable in a UML diagram, you enter _____.

- ☐ the variable name followed by the data type
- ☐ the variable name followed by a colon and the data type
- ☐ the class name followed by the variable name followed by the data type
- ☒ the data type followed by the variable name

Question 5**100 pts**

In Java, a comment on a line begins with which characters?

- ☒ //
- ☐ "
- ☐ ()
- ☐ " "

Question 6**100 pts**

What is a compile-time/syntax error?

- ☐ A missing main method.
- ☒ A violation of the rules of the computer language.
- ☐ An error that is so severe that it generates an exception.
- ☐ A program that is syntactically correct but does not do what it is supposed to do.

Question 7**100 pts**

What is the return type of a constructor?

- ☐ void
- ☐ private
- ☒ A constructor does not have a return type.
- ☐ public

Question 8**100 pts**

By convention among Java programmers, class names begin with a(n) _____.

- ☐ dollar sign
- ☐ lowercase letter
- ☐ digit
- ☒ uppercase letter

Question 9**100 pts**

A method name is _____ if a class has more than one method with that name (but different parameter types).

- ☒ overloaded
- ☐ overridden
- ☐ overwhelmed

☐ overimplemented

Question 10**100 pts**

What is the name of the method in the following method call?

```
System.out.println("Welcome");
```

- ☐ out
- ☐ "Welcome"
- ☐ System
- ☒ println

Question 11**100 pts**

Which type of method performs a task and sends a value back to the code that called it?

- ☒ value-returning
- ☐ complex
- ☐ local
- ☐ void

Question 12**100 pts**

What tool translates high-level instructions into low level machine code?

- ☐ assembler
- ☐ linker

☐ debugger

☒ compiler

Question 13

100 pts

The *camel case* naming convention uses _____ at intervals in the middle of the variable name.

☒ uppercase letters

☐ digits

☐ the underscore character

☐ dollar signs

Question 14

100 pts

Which of the following is **not** a rule that must be followed when naming identifiers?

☒ Identifiers can contain spaces.

☐ The first character must be one of the letters a-z, A-Z, and underscore or a dollar sign.

☐ Uppercase and lowercase characters are distinct.

☐ After the first character, you may use the letters a-z, A-Z, the underscore, a dollar sign, or digits 0-9.

Question 15

100 pts

When an object is created, the attributes associated with the object are called _____.

- ☒ instance methods
- ☐ class instances
- ☐ fixed attributes
- ☐ instance fields

Question 16**100 pts**

What is the result of the following code when executed?

```
System.out.println("Hello!");
```

- ☐ There are no errors.
- ☐ There are several errors.
- ☐ Hello! is displayed.
- ☐ There is a run-time/logic error.
- ☒ There is a compile-time/syntax error.

Question 17**100 pts**

Byte code instructions are

- ☒ read and interpreted by the JVM
- ☐ machine code instructions
- ☐ another name for source code
- ☐ syntax errors

Question 18**100 pts**

The central processing unit (CPU) consists of two parts which are

- ☐ the input and output devices
- ☒ the control unit and the arithmetic and logic unit (ALU)
- ☐ the control unit and main memory
- ☐ the arithmetic and logic unit (ALU) and main memory

Question 19

100 pts

Which statement declares a variable that references a `Circle` of radius 3, assuming the construction parameter is the radius value?

- ☐ `c.Circle(3);`
- ☒ `Circle c = new Circle(3);`
- ☐ `c.new.Circle(3);`
- ☐ `Circle c = Circle(3)`

Question 20

100 pts

Which of the following statements will correctly convert the data type, if `x` is a `float` and `y` is a `double`?

- ☐ `x = <float>y;`
- ☐ `x = float y;`
- ☐ `x = y;`
- ☒ `x = (float)y;`

Question 21**100 pts**

What will be displayed as a result of executing the following code?

```
public class test
{
    public static void main(String[] args)
    {
        int value1 = 9;
        System.out.println(value1);
        int value2 = 45;
        System.out.println(value2);
        System.out.println(value3);
        value = 16;
    }
}
```

- ☐ 9
45
16
- ☐ 94516
- ☒ Nothing. This is an error
- ☐ 9 45 16

Question 22**100 pts**

A class specifies the _____ and _____ that a particular type of object has.

- ☐ relationships, methods
- ☒ fields, methods
- ☐ relationships, object names
- ☐ fields, object names

Question 23**100 pts**

A value-returning method must specify _____ as its return type in the method header.

- ☐ an int
- ☒ Any valid data type
- ☐ a double
- ☐ a boolean

Question 24**100 pts**

Given that the `Circle` class has a field containing the radius, and the `setRadius` method updates it.

What is the output of the following code:

```
Circle c1 = new Circle(3);  
Circle c2 = new Circle(3);  
c1.setRadius(4);  
System.out.println(c2.getRadius());
```

- ☐ 8
- ☒ 3
- ☐ 4
- ☐ 6

Question 25**100 pts**

When writing documentation comments for a method, you can provide a description of each parameter by using a _____.

☐ @comment tag

☒ @param tag

☐ @return tag

☐ @doc tag

Quiz saved at 4:56pm

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