

CS 1102 Programming 1 - Term 2, 2019-2020

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Started on Wednesday, 18 December 2019, 9:36 AM

State Finished

Completed on Wednesday, 18 December 2019, 9:41 AM

Time taken 4 mins 25 secs

Marks 15.00/16.00

Grade 93.75 out of 100.00

Question 1

Correct

Mark 1.00 out of 1.00

To declare a constant MAX_LENGTH as a member of the class, you write

Select one:

- ☐ a. final static MAX_LENGTH = 99.98;
- ☐ b. final static float MAX_LENGTH = 99.98;
- ☐ c. static double MAX_LENGTH = 99.98;
- ☐ d. final double MAX_LENGTH = 99.98;
- ☒ e. final static double MAX_LENGTH = 99.98; ✓

Your answer is correct.

Question 2

Incorrect

Mark 0.00 out of
1.00

What is the output of the following code?

```
import java.util.Date;

public class Test {

    public static void main(String[] args) {

        Date date1 = new Date();

        Date date2 = new Date();

        System.out.print((date1 == date2) + " " + (date1.getClass() ==
        date2.getClass()));

    }

}
```

Select one:

- ☒ a. false false ✖
- ☐ b. true true
- ☐ c. false true
- ☐ d. true false

Question 3

Correct

Mark 1.00 out of
1.00

The abbreviation OOP stands for:

Select one:

- ☐ a. Object only programming
- ☐ b. Object oriented procedures
- ☒ c. Object oriented programming ✔
- ☐ d. Object only programming

Question 4

Correct

Mark 1.00 out of
1.00

In the following code, what is the newStudent method called:

```
public class newStudent {  
    public String name;  
    public int age;  
  
    public newStudent() {  
        age=5;  
        name = "Jim Jones";  
    }  
}
```

Select one:

- ☐ a. object
- ☒ b. constructor ✓
- ☐ c. getter method
- ☐ d. setter method

Question 5

Correct

Mark 1.00 out of
1.00

Consider the following code, which output is correct?

```
public class Student {  
    int age;  
    static int age2 = 3;  
  
    public static void main(String[] args) {  
        Student student1;  
        Student student2;  
        Student student3;  
  
        student1 = new Student();  
        student1.age = 10;  
        student2 = student1;  
        student2.age -= 5;  
        student3 = new Student();  
        System.out.println(student1.age+" "+student2.age);  
    }  
}
```

Select one:

- ☒ a. 5 5 ✓
- ☐ b. 10 5
- ☐ c. 5 10
- ☐ d. 5 0

Question 6

Correct

Mark 1.00 out of
1.00

In the following code what is the getName() method referred to:

```
public class Student {  
    public String name;  
    public int age;  
    public String getName() {  
        return name;  
    }  
    public void setName( String newName ) {  
        name = newName;  
    }  
}
```

Select one:

- ☒ a. getter method ✓
- ☐ b. setter method
- ☐ c. constructor method
- ☐ d. instance variable initialization

Question 7

Correct

Mark 1.00 out of
1.00

A method that is associated with an individual object is called:

Select one:

- ☐ a. a static method
- ☐ b. a class method
- ☒ c. an instance method ✓
- ☐ d. an object method

Question 8

Correct

Mark 1.00 out of
1.00

In the following code what is the setName() method referred to:

```
public class Student {  
    public String name;  
    public int age;  
    public String getName() {  
        return name;  
    }  
    public void setName( String newName ) {  
        name = newName;  
    }  
}
```

Select one:

- ☒ a. setter method ✓
- ☐ b. getter method
- ☐ c. construtor method
- ☐ d. object initialization

Question 9

Correct

Mark 1.00 out of
1.00

What is the output of the following code?

```
public class Test {  
    public static void main(String[] args) {  
        String s1 = new String("Welcome to Java!");  
        String s2 = new String("Welcome to Java!");  
        if (s1 == s2)  
            System.out.println("s1 and s2 reference to the same String  
object");  
        else  
            System.out.println("s1 and s2 reference to different String  
objects");  
    }  
}
```

Select one:

- ☐ a. s1 and s2 reference to the same String object.
- ☒ b. s1 and s2 reference to different String objects. ✓

Question 10

Correct

Mark 1.00 out of 1.00

Which of the following code in A or B, or both creates an object of the java.util.Date class?

A:

```
public class Test {  
    public Test() {  
        new java.util.Date();  
    }  
}
```

B:

```
public class Test {  
    public Test() {  
        java.util.Date date = new java.util.Date();  
    }  
}
```

Select one:

- ☐ a. A.
- ☐ b. B.
- ☐ c. Neither
- ☒ d. Both ✓

Question 11

Correct

Mark 1.00 out of 1.00

True or False: The variables that an object contains are called local variables.

Select one:

- ☐ True
- ☒ False ✓

Question 12

Correct

Mark 1.00 out of 1.00

True or False: The area of memory that objects reside in is known as the stack.

Select one:

- ☐ True
- ☒ False ✓

Question 13

Correct

Mark 1.00 out of 1.00

True or False: In the following code, the object created from class Student is stored in the variable

myStudent.

```
Student myStudent;
```

```
myStudent = new Student();
```

Select one:

- ☐ True
- ☒ False ✓

Question 14

Correct

Mark 1.00 out of 1.00

True or False: When a programmer neglects to delete objects that are no longer used it is referred to as a memory leak.

Select one:

- ☒ True ✓
- ☐ False

Question 15

Correct

Mark 1.00 out of 1.00

True or False: In java, Garbage Collection is the process that reclaims the memory used by objects which are no longer in use.

Select one:

- ☒ True ✓
- ☐ False

Question **16**

Correct

Mark 1.00 out of
1.00

True or False: In Java no variable can ever hold an object. It can only hold a reference to an object.

Select one:

- ☒ True ✓
- ☐ False

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