Started on	Wednesday, 23 March 2022, 4:47 PM
State	Finished
Completed on	Wednesday, 23 March 2022, 5:03 PM
Time taken	15 mins 49 secs

Question **1**

Complete

Marked out of 1.00

Which of the following legally fill in the blank so you can run the main() method from the command line? (Choose all that apply)

public static void main( )

Select one or more:

- [ ] **a. String names**
- [ ] **b. None of the above.**
- [ ] **c. String... $n**
- [x] **d. String abc[]**
- [ ] **e. String[] 123**
- [x] **f. String[] _names**
- [x] **g. String _Names[]**

Question **2**

Complete

Marked out of 1.00

Which of the following are true? (Choose all that apply)

Select one or more:

- [ ] **a. A local variable of type boolean defaults to true.**
- [ ] **b. A local variable of type boolean defaults to false.**
- [x] **c. A local variable of type boolean defaults to null.**
- [ ] **d. A local variable of type float defaults to 0.**
- [x] **e. A local variable of type Object defaults to null.**
- [ ] **f. None of the above.**
- [ ] **g. A local variable of type float defaults to 0.0.**

Question **3**

Complete

Marked out of 1.00

Which of the following are true? (Choose all that apply)

```
public class Bunny {
    public static void main(String[] args) {
        Bunny bun = new Bunny();
    }
}
```

Select one or more:

- [ ] **a. None of the above.**
- [ ] **b. Bunny is a reference to an object.**
- [x] **c. Bunny is a class.**
- [ ] **d. main is a reference to an object.**
- [ ] **e. bun is a class.**
- [ ] **f. main is a class.**
- [x] **g. bun is a reference to an object.**

Question 4

Complete

Marked out of 1.00

Suppose we have a class named Rabbit. Which of the following statements are true? (Choose all that apply)

```
1: public class Rabbit {
2: public static void main(String[] args) {
3: Rabbit one = new Rabbit();
4: Rabbit two = new Rabbit();
5: Rabbit three = one;
6: one = null;
7: Rabbit four = one;
8: three = null;
9: two = null;
10: two = new Rabbit();
11: System.gc();
12: } }
```

Select one or more:

- [x] **a. The Rabbit object from line 4 is first eligible for garbage collection immediately following line 9.**
- [ ] **b. The Rabbit object from line 4 is first eligible for garbage collection immediately following line 11.**
- [ ] **c. The Rabbit object from line 3 is first eligible for garbage collection immediately following line 8.**
- [ ] **d. The Rabbit object from line 4 is first eligible for garbage collection immediately following line 12.**
- [x] **e. The Rabbit object from line 3 is first eligible for garbage collection immediately following line 6.**
- [ ] **f. The Rabbit object from line 3 is first eligible for garbage collection immediately following line 12.**

Question 5

Complete

Marked out of 1.00

Which represent the order in which the following statements can be assembled into a program that will compile successfully? (Choose all that apply)

A: class Rabbit {}

B: import java.util.*;

C: package animals;

Select one or more:

- [x] a. B, A
- [x] b. C, A
- [ ] c. B, C, A
- [x] d. C, B, A
- [ ] e. A, C
- [ ] f. A, B
- [ ] g. A, B, C

Question 6

Complete

Marked out of 1.00

What does the following code output?

```
1: public class Salmon {
2:     int count;
3:     public void Salmon() {
4:             count = 4;
5:     }
6:     public static void main(String[] args) {
7:             Salmon s = new Salmon();
8:             System.out.println(s.count);
9:     }
10:}
```

Select one:

- (•) a. Compilation fails on line 3.
- ( ) b. Compilation fails on line 8.
- ( ) c. 4
- ( ) d. Compilation fails on line 7.
- ( ) e. Compilation fails on line 4.
- ( ) f. 0

Question 7

Complete

Marked out of 1.00

Given the following class, which of the following lines of code can replace INSERT CODE HERE to make the code compile? (Choose all that apply)

```
public class Price {
    public void admission() {
        INSERT CODE HERE
        System.out.println(amount);
    }
}
```

Select one or more:

- [ ] **a. int amount = 9L;**
- [ ] **b. double amount = 1_2_.0_0;**
- [x] **c. None of the above.**
- [ ] **d. int amount = 1_2_;**
- [ ] **e. double amount = 0xE;**
- [ ] **f. int amount = 0xE;**
- [ ] **g. int amount = 0b101;**

Question 8

Complete

Marked out of 1.00

Which of the following are true statements? (Choose all that apply)

Select one or more:

- [ ] **a. Java is a functional programming language.**
- [ ] **b. Java has pointers to specific locations in memory.**
- [x] **c. Java is an object-oriented language.**
- [x] **d. Java code compiled on Windows can run on Linux.**
- [x] **e. Java allows operator overloading.**
- [ ] **f. Java is a procedural language.**

Question 9

Complete

Marked out of 1.00

Which of the following are true? (Choose all that apply)

Select one or more:

- [ ] **a. javac compiles a .class file into a .java file.**
- [ ] **b. javac compiles a .java file into a .bytecode file.**
- [x] **c. javac compiles a .java file into a .class file.**
- [ ] **d. Java takes the name of the .bytecode file as a parameter.**
- [x] **e. Java takes the name of the .class file as a parameter.**
- [ ] **f. Java takes the name of the class as a parameter.**

Question **10**

Complete

Marked out of 1.00

What is true about the following code? (Choose all that apply)

```
public class Bear {
        protected void finalize() {
                System.out.println("Roar!");
        }
        public static void main(String[] args) {
                Bear bear = new Bear();
                bear = null;
                System.gc();
        }
}
```

Select one or more:

- [ ] **a. Garbage collection is guaranteed not to run.**
- [ ] **b. finalize() might or might not be called**
- [x] **c. finalize() is guaranteed not to be called.**
- [ ] **d. finalize() is guaranteed to be called.**
- [ ] **e. The code does not compile.**
- [x] **f. Garbage collection is guaranteed to run.**
- [ ] **g. Garbage collection might or might not run.**