1. The following program displays:

|  |
| --- |
| public class Test {     static int func(int val) {   if (val % 2 == 0) {   return val / 2;   } else {   return func(val + 7);   }   }     public static void main(String[] args) {   for (int i = 0; i < 5; i++) {   System.out.print(func(i) + " ");   }   }  } |

a. 0 0 1 1 2

b. 0 4 1 5 2

c. 7 4 1 5 2

d. 7 4 2 1 2

e. 0 4 2 6 2

2. What is the output of the following program?

|  |
| --- |
| class Recursion {     int func(int n) {   int result;   result = func(n - 1);   return result;   }   }     public class Prog {     public static void main(String args[]) {   Recursion obj = new Recursion() ;     System.out.print(obj.func(12));   }    } |

a. 0

b. 1

c. Compilation Error

d. Runtime Error

3. What is reflection in java?

a. It's the loading phase of a class in a JVM

b. It is the process of examining / modifying the behavior of an object at runtime.

c. It's the addition of tags to classes or methods for code generation

4. Which of the following is the output of the program?

|  |
| --- |
| import java.lang.annotation.\*;  import java.lang.reflect.\*;    @Retention(RetentionPolicy.RUNTIME)  @interface MyAnnotation {   int value() default 0;   String color() default "red";  }    @MyAnnotation(color="blue")  public class TestAnnotation {     public static void main(String[] args) {   Annotation[] annotations = TestAnnotation   .class   .getAnnotations();   for (Annotation annot: annotations) {   System.out.println(annot.toString());   }   }  } |

a. @MyAnnotation(color=red)

b. @MyAnnotation(color=blue)

c. @MyAnnotation(color=red, value=0)

d. @MyAnnotation(color=blue, value=0)

e. Runtime exception

5. One of the main differences between a ListView and ComboBox is that you can select only one value from a ComboBox

a. True

b. False

6. If you want to exchange messages over a network with another computer:

a. You need a single Socket objet, which handles communications both ways.

b. You need two Socket objects, one to send messages, the other one to receive messages.

7. You don't need to specify database connection parameters but only a name when yousing a DataSource:

a. True

b. False

8. If in a JDBC program you want to select data from a SQLite database to insert it into a MySQL database:

a. You cannot do it. A JDBC program connects to a single database.

b. You can do it. You need one connection, but two separate statements, one to query from SQLite, the other to insert into MySQL.

c. You can do it but you always need two Connection objects, one to connect to SQLite, the other to connect to MySQL.

d. You can do it, but you only need two Connection objects if MySQL runs on another server. If both databases are on the same server, a single Connection is enough.

9. When you add Widgets to a Container in JavaFX, they are added to:

a. a Map

b. a Tree

10. If in a Javafx you have the following widgets:

|  |
| --- |
| RadioButton button1 = new RadioButton("Male");   button1.setSelected(true);   myBox.getChildren().add(button1);   RadioButton button2 = new RadioButton("Female");   myBox.getChildren().add(button2); |

Clicking on "Female" will automatically deactivate "Male"

a. True

b. False