

Sheet (8): MCQ try Exam

1- _____ is a software that interprets Java bytecode.

- A. Java virtual machine
- B. Java compiler
- C. Java debugger
- D. Java API

2- If a program compiles fine, but it produces incorrect result, then the program suffers _____.

- A. a compilation error
- B. a runtime error
- C. a logic error

3- What is the result of $45 / 4$?

- A. 10
- B. 11
- C. 11.25
- D. 12

4- `boolean even = false;`

`if (even) {`

`System.out.println("It is even!");`

`}`

A. The code displays It is even!

B. The code displays nothing.

C. The code is wrong. You should replace `if (even)` with `if (even == true)`

D. The code is wrong. You should replace `if (even)` with `if (even = true)`

5- How many times will the following code print "Welcome to Java"?

`int count = 0;`

`while (count < 10) {`

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

`count++;`

`}`

- A. 8
- B. 9
- C. 10
- D. 11
- E. 0

6- If you declare an array `double[] list = {3.4, 2.0, 3.5, 5.5}`, the highest index in array list is _____.
A. 0 B. 1 C. 2 D. 3 E. 4

7- In the following code, what is the printout for list2?

```
class Test {  
    public static void main(String[] args) {  
        int[] list1 = {1, 2, 3};  
        int[] list2 = {1, 2, 3};  
        list2 = list1;  
        list1[0] = 0; list1[1] = 1; list2[2] = 2;  
        for (int i = 0; i < list2.length; i++)  
            System.out.print(list2[i] + " ");  
    }  
}
```

A. 1 2 3 B. 1 1 1 C. 0 1 2 D. 0 1 3

8- Show the output of the following code:

```
public class Test {  
    public static void main(String[] args) {  
        int[] x = {1, 2, 3, 4, 5};  
        increase(x);  
        int[] y = {1, 2, 3, 4, 5};  
        increase(y[0]);  
        System.out.println(x[0] + " " + y[0]);  
    }  
    public static void increase(int[] x) {  
        for (int i = 0; i < x.length; i++)  
            x[i]++;  
    }  
  
    public static void increase(int y) {  
        y++;  
    }  
}
```

A. 0 0 B. 1 1 C. 2 2 D. 2 1 E. 1 2

9- Given the declaration `Circle x = new Circle()`, which of the following statement is most accurate.

- A. x contains an int value.
- B. x contains an object of the Circle type.
- C. x contains a reference to a Circle object.
- D. You can assign an int value to x.

10- Suppose you create a class `Cylinder` to be a subclass of `Circle`. Analyze the following code:

```
class Cylinder extends Circle {  
    double length;  
    Cylinder(double radius) {  
        Circle(radius);  
    }  
}
```

A. The program compiles fine, but you cannot create an instance of `Cylinder` because the constructor does not specify the length of the cylinder.

B. The program has a compile error because you attempted to invoke the `Circle` class's constructor illegally.

C. The program compiles fine, but it has a runtime error because of invoking the `Circle` class's constructor illegally.

11- an example of GUI component class is

- A) `FXML`
- B) `controller`
- c) `Texfield`
- d) `stage`

12) in what package do find the `Bitthon`

- a) `javafx.scene`
- b) `java.scene`
- c) `java.awt`
- d) `javafx.scene.control`

13) What exception type does the following program throw? `public class Test { public static void main(String[] args) {`

```
System.out.println(1 / 0);  
} }
```

- a- `ArithmeticException`
- b- `ArrayIndexOutOfBoundsException`
- c- `StringIndexOutOfBoundsException`
- d- `ClassCastException`
- e- No exception