



AED2018Quiz6 11 - 13 30 minutes

SCORE: 10 points

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Question - 1 Java: Find the Output

Java General Programming		Exception Handling	Language-Specific	Core CS
Basic Programming				

Consider the following Java code snippet:

```
public int divide(int a, int b) {
   int c = -1;

   try {
      c = a / b;
   }
   catch (Exception e) {
      System.err.print("Exception ");
   }
   finally {
      System.err.println("Finally ");
   }

   return c;
}
```

What will our code *print* when we call *divide(4, 0)*?

- Exception Finally
- Finally Exception
- Exception
- Finally
- No output
- -1

Question - 2

Java: Constructor, Exception Handling and Inheritance



What should be the output of the following code?

```
class AirPlane {
   public AirPlane() throws IOException {
      System.out.print("AirPlane");
      throw new IOException();
```



```
class AirJet extends AirPlane {
   public AirJet() throws IOException {
    try {
        super();
     } catch (IOException e) {
        System.out.print("IOException is thrown
in AirJet");
    }
public class Tester {
    public static void main(String args[]) {
       try {
        new AirJet();
        } catch (IOException e) {
            System.out.print("IOException is
thrown in Tester");
        }
```

"AirPlanelOException is thrown in AirJet" will be printed.

"AirPlaneIOException is thrown in AirJetIOException is thrown in Tester" will be printed.

- "AirPlaneIOException is thrown in Tester" will be printed.
- Compile error.

Question - 3 SCORE: 10 points

Java Easy Inheritance Object Oriented Programming

What is the output for the below code?

```
1. public class A {
2.    int add(int i, int j) {
3.        return i+j;
4.    }
5. }
6. public class B extends A{
7.    public static void main(String argv[]) {
8.        short s = 9;
9.        System.out.println(add(s,6));
10.    }
11.}
```

Compile fail due to error on line no 2

Compile fail due to error on line no 9 due to the non-static method referenced from a static context.

- Compile fail due to error on line no 9 due to type mismatch.
 - 15

Question - 4 SCORE: 10 points Java Easy Iteration What is the output for the below Java code? public class Test { public static void main(String[] args){ int i = 010;int j = 07;System.out.println(i); System.out.println(j); 8 7 10 7 C.Compilation fails with an error at line 3 D.Compilation fails with an error at line 5 Question - 5 SCORE: 10 points Java: String Array Core CS Application Development Java Arrays Language-Specific Which of the following Java declaration of the String array is correct? String temp [] = new String {"j" "a" "z"}; String temp [] = { "j " " b" "c"}; String temp = {"a", "b", "c"}; String temp [] = {"a", "b", "c"}; Question - 6 SCORE: 10 points Application Development Given the following declarations String s1=new String("Hello")

```
String s1=new String("Hello")
String s2=new String("there");
String s3=new String();
```

Which of the following are legal operations?

- s3=s1 + s2;
- s3=s1 s2;
- s3=s1 & s2
- s3=s1 && s2

Question - 7

SCORE: 10 points

Which answer(s) match the given pattern? pattern: a*b+

- aa
- bb
- ab
- ba

Question - 8

SCORE: 10 points

Choose the correct output according to following code:

```
public class Q {
    static int c = 0;
    public static void main(String[] args) {
        Q q1 = c();
        Q q2 = c(q1);
        Q q3 = c(q2);
        Q q4 = c(q3);
    }
    private Q() {
        System.out.print("c = " + c + " ");
    }
    static Q c() {
        return c++ <= 0 ? new Q() : null;
    }
    static Q c(Q w) {
        return w.c++ == 1 ? new Q() : null;
}</pre>
```

- c = 2c = 1
- c = 1 c = 2
- c = 1 c = 2 c = 3
- NullPointerException

Question - 9 SCORE: 10 points

What is the output of this program?

```
public class Demo {

public static void main(String []args) {
    for (int i = 0; i < 10; i++) {
        if (i == 2 || i == 4 || i == 6) {
            System.out.print(i + " ");
            continue;
        }
        if (i == 4) {
            System.out.print(i + " ");
            break;
        }
        return;
        }
    }
}</pre>
```

2

24

246

nothing gets printed

Question - 10 SCORE: 10 points

What is the correct order for system design?

Problem Definition --> Specification --> Design --> Implementation

Problem Definition --> Design --> Specification --> Implementation

Specification --> Problem Definition --> Design --> Implementation

Problem Definition --> Design --> Implementation --> Specification