

10 minutes AED-Fall2018-Quiz2 (13:00-...

Question - 1	SCORE: 10 points
Java Easy Iteration	
What gets printed when the following program is compiled and run?	
<pre>class test {   public static void main(String args[]) {     int i;     do {         i++;     }     while(i &lt; 0);     System.out.println(i);   } }</pre>	
The program does not compile as i is not initialized.	
The program compiles but does not run.	
The program compiles and runs but does not print anything.	
The program prints 0.	
The program prints 1.	
Question - 2 Java: String Array  Application Development Java Arrays Core CS Language-Specific	SCORE: 10 points
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"};	
<pre>String temp [] = {"a", "b", "c"};</pre>	
Question - 3	SCORE: 10 points
Application Development Java General Programming	

What is the result of trying to compile and run this program?

```
public class Test {
  public static void main(String[] args){
    int[] a = {1};
    Test t = new Test();
    t.increment(a);
    System.out.println(a[a.length - 1]);
}
void increment(int[] i){
    i[i.length - 1]++;
}
```

- Compiler error
- Compiles and runs printing out 2
- Compiles and runs printing out 1
- An ArrayIndexOutOfBounds Exception at runtime

#### Question - 4

SCORE: 10 points

Examine the following code:

```
ArrayList<String> list = new ArrayList<String>()
;

list.add( "A" );
list.add( "B" );
list.add( "C" );
list.add( "D" );
list.add( "E" );
```

Which of the following will change the list so that it looks like:

```
A
B
C
D
0
E
```

- list.add( 3, "O" );
- list.add( 4, "O" );
- list.add( 5, "O" );
- list.set( 3, "O" );

## Question - 5

SCORE: 10 points

What is the output of the following code fragment:

```
int[] num = { 2, 4, 6, 8, 10, 1, 3, 5, 7, 9
};

for ( int index= 0 ; index < 5 ; index++ )
    System.out.print( num[ index ] + " " );</pre>
```

2	4	6	8
_	-	0	•

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2 4 6 8 10 1

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#### Question - 6

SCORE: 10 points

What is the output of the following code:

- ( ) 1
- $\bigcirc$  6
- 1436
- 14

### Question - 7

SCORE: 10 points

Fill in the blanks of the following code fragment so that the elements of the array are printed *in reverse order*, starting with the last element.

```
int[] num = { 2, 4, 6, 8, 10, 1, 3, 5, 7, 9
};

for ( int ______ ; _____ ;
_____ )
System.out.print( num[ index ] + " " );
```

- index = 0; index < num.length; index--
- index = num.length-1; index >= 0; index--
- index = length; index < 0; index--
- index = length-1; index > 0; index--

## Question - 8

SCORE: 10 points

```
What will be the output of the following program?
public class Highlight {
    public static void main(String[] args) {
        int[] numbers = {10, 20, 30, 40, 50, 60, 70}
, 80, 90};
    for (int x : numbers) {
        if (x == 30 || x == 60 || x == 90 || x

== 120) {
        continue;
        }
        System.out.print(x + " ");
        continue;
    }
}
```

- 10 20 30 40 50 60 70 80 90 120
- 10 20 30 40 50 60 70 80 90
- 10 20 40 50 70 80
- Compilation Error
- Runtime Error

#### Question - 9

SCORE: 10 points

What will be the output of the following program?

```
public class Demo {
   int a;
    int b;
    public Demo(){
        System.out.println("Zero argument
constructor called");
    public Demo(int a, int b) {
        this();
        System.out.println("Two argument
constructor called");
        a = a;
        b = b;
    public static void main(String []args) {
        Demo d = new Demo(10, 20);
        System.out.println("a = "+ d.a +", b = "+
d.b);
}
```

Zero argument constructor called Two argument constructor called a = 10, b = 20  $\,$ 

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Zero argument constructor called Two argument constructor called a = 0, b = 0

Two argument constructor called a = 10, b = 20

Two argument constructor called a = 0, b = 0

Question - 10

SCORE: 10 points

What is the correct order for system design?

Problem Definition --> Design --> Implementation

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

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

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