H HackerRank
For Work

AED-Fall2018-Quiz2 (09:00-…   20 minutes

Question - 1   SCORE: **10 points**

Java   Easy   Static Methods

What is the result of compiling and running the following program?

```
class test {
    public static void main(String args[]) {
        int[] arr = {1,2,3,4};
        call_array(arr[0], arr);
        System.out.println(arr[0] + "," +
arr[1]);
    }
    static void call_array(int i, int arr[]) {
        arr[i] = 6;
        i = 5;
    }
}
```

○   1,2

○   5,2

●   1,6

○   5,6

Question - 2   SCORE: **10 points**

Java   Easy   Iteration

What gets printed when the following program is compiled and run?

```
class test {
   public static void main(String args[]) {
       int i;
       do {
           i++;
       }
       while(i < 0);
       System.out.println(i);
   }
}
```

●   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 - 3
Java: String Array

SCORE: **10 points**

| Application Development | Java | Arrays | Core CS | 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 - 4

SCORE: **10 points**

Examine the following code:

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

list.add( "Apple" );
list.add( "Berry" );
list.add( "Chip" );
list.add( "Donut" );
list.add( "Egg" );
```

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

```
Apple
Berry
Chip
Donut
```

○ list.remove(list.size());

◉ list.remove(list.size()-1);

○ list.remove(5);

○ list.clear("Elmo");

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 < num.length ;
index = index + 2  )
        System.out.print(  num[ index ] + "  "  );
```

○ 2 4 6 8 10 1 3 5 7 9

○ 4 8 1 5 9

◉ 2 6 10 3 7

○ 2 6 10 3 7 0

Question - 6

SCORE: **10 points**

What is the output of the following code:

```
int[] array = { 1, 4, 3, 6, 8, 2, 5};
int what = array[0];

for ( int index=0; index < array.length;
index++ )
{
  if ( array[ index ] > what )
    what = array[ index ];
}
System.out.println( what );
```

○ 1

○ 5

○ 1 4 3 6 8 2 5

◉ 8

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 = length; index < 0; index--

○ index = length-1; index > 0; index--

◉ index = num.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, 8
0, 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

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;
        this.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 = 0,
b = 20

○ Zero argument constructor called Two argument constructor called a =
10, b = 20

○ Two argument constructor called a = 0, b = 20

Two argument constructor called a = 10, b = 20

○

Question - 10   SCORE: **10 points**

What is the correct order for system design?

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

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

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

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