

AED-Fall2018-Quiz4 (09:00-... 20 minutes

Questio	on - 1 d the Output			SCORE: 10 points
Java	General Programming	Exception Handling	Language-Specific	Core CS
	gramming			
Consider the following Java code snippet:				
	.c int divide(int .nt c = -1;	t a, int b) {		
t	ry { c = a / b;			
<pre>catch (Exception e) { System.err.print("Exception "); }</pre>				
<pre>finally { System.err.println("Finally "); }</pre>				
_				
}	eturn c;			
What will our code <i>print</i> when we call <i>divide</i> (4, 0)?				
	Exception Finally			
	Finally Exception			
	Exception			
	Finally			
	No output			
	-1			
Question - 2			SCORE: 10 points	
Application Development Java				
What is the correct declaration of an abstract method that is intended to be public?				
•	public abstract void	add();		
	public abstract void	add() {}		
	public abstract add());		
	public virtual add();			

Question - 3

SCORE: 10 points

In order to get all even number between the range 0 to 10 within given list, which sentence should be used for if statement?

```
private static List<Integer>
select(ArrayList<Integer> list) {
    ArrayList<Integer> result = new ArrayList<>
    // select even number in range [0 - 10]
    for (Integer i: list) {
        if (_____?_
            result.add(i);
    return result;
}
```

- i % 2 == 0 || i >= 0 || i <= 10
- i % 2 == 0 || (i >= 0 && i <= 10)
- i % 2 == 0 && (i >= 0 || i <= 10)
- i % 2 == 0 && i >= 0 && i <= 10

Question - 4

SCORE: 10 points

Choose the correct output according to following code:

```
import java.util.*;
public class Demo {
    public static void main(String []args) {
        ArrayList<String> list = new ArrayList<>
();
        list.add("2");
        list.add("0");
        list.add("1");
        list.add("8");
        List<String> newList = next(list);
        list.add("9");
        for (String i: newList) {
            System.out.print(i + " ");
        }
    }
    private static List<String> next(List<String>
list) {
        list.remove(list.size()-1);
        return list;
    }
}
```

- "2" "0" "1"
- "2" "0" "1" "9"
- 201
- 2019

Question - 5 SCORE: 10 points static 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; } c = 1 c = 2c = 1 c = 2 c = 3c = 1 c = 2 c = 3 c = 4Compilation Error NullPointerException Question - 6 SCORE: 10 points Which of the following is incorrect? Which of the following is incorrect? X: super keyword and this keyword can not be used in a static method. Y: static variables are shared by all objects and initialized when the class is first loaded. Only X Only Y Both are correct Both are incorrect Question - 7 SCORE: 10 points

Say that there are three classes: Computer, AppleComputer, and IBMComputer. What are the likely relationships between these classes?

Computer is the superclass, AppleComputer and IBMComputer are subclasses of Computer.

Computer, AppleComputer and IBMComputer are sibling classes.

IBMComputer is the superclass, AppleComputer and Computer are subclasses of IBMComputer.

Computer is a superclass, AppleComputer is a subclasses of Computer, and IBMComputer is a sublclas of AppleComputer.

Question - 8

SCORE: 10 points

What is the output of this program?

```
public class Demo {
    public static void main(String args[]) {
        B obj = new B();
        obj.i=1;
        obj.j=2;
        obj.display();
    }
}
class A {
    int i;
class B extends A {
    int j;
    void display() {
        super.i = j + 1;
        System.out.println(j + " " + i);
}
```

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- 22
- 32
- 23
- Compilation Error