Fpt Software	**FRESHER ACADEMY** JPE Quiz 2 Option 1	
	Testing date:…… **Allowed time:** 30' **Account:** …… **Birth date:** ……	**Testing score (/10):**…… **CODE: JPE.Q2.Opt1**

Testing notes

- You are not allowed to use mobile or other communicating devices during the test
- This is book-closed testing. You are not allowed to use any reference while doing the test.
- Select one answer for each question. Don't answer or note on the question book.
- Fill your answers into the Answer sheet.

Testing questions & answers

No.	Question & Answer Group	ANS

1.	Consider this class (method overloading):
	`1. public class Test {`
	`2. public float aMethod(float a, float b) {`
	`3. }`
	`4.`
	`5. }`
	Which of the following methods would be legal if added (individually) at **line 4** (Choose two)?
	A. public int aMethod(int a, int b) { }
	B. public float aMethod(float a, float b) { }
	C. public float aMethod(float a, float b, int c) throws Exception { }
	D. public float aMethod(float c, float d) { }
		A,C

2.	What will the following code print when compiled and run?
	`public class Test {`
	`static int a = 0;`
	`int b = 5;`
	`public void foo(){`
	`while(b>0){`
	`b--;`
	`a++;`
	`}`
	`}`
	`public static void main(String[] args) {`
	`Test p1 = new Test();`
	`p1.foo();`
	`Test p2 = new Test();`
	`p2.foo();`
	`System.out.println(p1.a+" "+p2.a);`
	`}`
	`}`
	A. 0 10
	B. 10 10
	C. 10 0
	D. 5 5
		B

3.	What will the following program print when compiled and run:
	`public class TestClass {`
	`public static void main(String[] args) {`
	`someMethod();`
	`}`
	
	`static void someMethod(Object parameter) {`
	`System.out.println("Value is "+parameter);`
	`}`
	`}`
	A. It will not compile.
	B. Value is null
	C. Value is ""
		A

4.	What will the following code print when compiled and run:
	`class Data {`
	`int intVal = 0;`
	`String strVal = "default";`
	`public Data(int k){`
	`this.intVal = k;`
	`}`
	
	`}`
	`public class TestClass {`
	`public static void main(String[] args) throws Exception {`
	`Data d1 = new Data(10);`
	`d1.strVal = "D1";`
	`Data d2 = d1;`
	`d2.intVal = 20;`
	`System.out.println("d2 val = "+d2.strVal);`
	`}`
	`}`
	A. d2 val = d2
	B. val = default
	C. d2 val = D1
	D. Exception at run time.
		C

5.	Which set of statements result in ClassB and ClassC being derived from ClassA? (Choose two) A. class ClassB extends ClassA {} B. class ClassB extends ClassC {} C. class ClassA extends ClassB {} D. class ClassC extends ClassB {}	**A,D**
6.	Final methods can be overridden ? A. True B. False	**B**
7.	Which of the following access control keywords can be used to enable all the **subclasses** to access a method defined in the **base class**? (Choose two) A. public B. private	**A,C**

	C. protected D. No keyword is needed.	

8.	Consider the following code:
	`String[] dataList = {"x", "y", "z"};`
	`for (String dataElement : dataList) {`
	`int innerCounter = 0;`
	`while (innerCounter < dataList.length) {`
	`System.out.println(dataElement + ", " + innerCounter);`
	`innerCounter++;`
	`}`
	`}`
	How many times will the output contain 2?
	A. 1
	B. 2
	C. 3
	D. 4
		C

9.	What will the following program snippet print?
	`int i=0, j=11;`
	`do {`
	`if(i > j) { break; }`
	`j--;`
	`} while( ++i < 5);`
	`System.out.println(i+"  "+j);`
	A. 5 5
	B. 5 6
	C. 6 6
	D. 6 5
		B

10.	Which letters will be printed when the following program is run?
	`public class TestClass {`
	`public static void main(String args[]){`
	`B b = new C();`
	`A a = b;`
	`if (a instanceof A) System.out.println(""A"");`
	`if (a instanceof B) System.out.println(""B"");`
	`if (a instanceof C) System.out.println(""C"");`
	`if (a instanceof D) System.out.println(""D"");`
	`}`
	`}`
	`class A { }`
	`class B extends A { }`
	`class C extends B { }`
	`class D extends C { }`
	(Multichoice)
	A. A will be printed.
	B. B will be printed.
	C. C will be printed.
	D. D will be printed.
		A,B,C

11.	What will the following code print when compiled and run?
	`class ABCD {`
	`  int x = 10;`
	`  static int y = 20;`
	`}`
	`class MNOP extends ABCD {`
	`  int x = 30;`
	`  static int y = 40;`
	`}`
	
	`public class TestClass {`
	`  public static void main(String[] args) {`
	`  System.out.println(new MNOP().x+", "+new MNOP().y);`
	`  }`
	`}`
	A. 10, 40
	B. 30, 20
	C. 10, 20
	D. 30, 40
		D

12.	Can an abstract class may be final? A. Yes B. No	**B**

13.	Given:
	`public class Employee{`
	`  String name;`
	`  public Employee(){`
	`  }`
	`}`
	Which of the following lines creates an Employee instance?
	A. Employee e;
	B. Employee e = new Employee();
	C. Employee e = Employee.new();
	D. Employee e = Employee();
		B

14.	Declaration of methods as final results in faster execution of the program? A. True B. False	**A**

15.	Given that TestClass is a class, how many objects and reference variables are created by the following code?
	`TestClass t1, t2, t3, t4;`
	`t1 = t2 = new TestClass();`
	`t3 = new TestClass();`
	A. 2 objects, 3 references.
	B. 2 objects, 4 references.
	C. 3 objects, 2 references.
	D. 2 objects, 2 references.
		B

16.	Given :
	package com.fpt.lab;
	1.class Student {
	2. private final Integer id;
	3. private final String name;
	4.
	5. public Student(){
	6.
	7. }
	8.
	9. public Integer getId() {
	10. return id;
	11. }
	12.
	13. public String getName() {
	14. return name;
	15. }
	16.
	17. @Override
	18. public String toString() {
	19. return String.format("Id: %d - Name
	:%s",this.id,this.name);
	20. }
	21.
	22. public static void main(String[] args) {
	23. final Student st = new Student();
	24. st.id = 1;
	25. st.name = "Fresher Academy Student";
	26. System.out.println(st.toString());
	27. }
	28.}
	What's the ouput result?
	A. Id: 1-Name : Fresher Academy Student
	B. com.fpt.lab.Student@7440e464
	A. Complie error variable id ,name might not have been initialized
		C

17.	Given:
	public class **TestClass**{
	public static int getSwitch(String str){
	return (int) Math.round(Double.parseDouble(str.substring(1,
	str.length()-1)));
	}
	public static void main(String args []){
	switch(getSwitch(args[0])){
	case 0 : System.out.print(""Hello "");
	case 1 : System.out.print(""World""); break;
	default : System.out.print(""Good Bye"");
	}
	}
	}
	
	What will be printed by the above code if it is run with command line:
	java TestClass --0.50
		C

	A. Hello B. World C. Hello World D. Hello World Good Bye	

18.	What will the following code snippet print when compiled and run?
	`byte starting = 3;`
	`short firstValue = 5;`
	`int secondValue = 7;`
	`int functionValue = (int) (starting/2 + firstValue/2 +`
	`(int) firstValue/3 ) + secondValue/2;`
	`System.out.println(functionValue);`
	A. 7
	B. 8
	C. 10
	D. 11
		A

19.	Which is the default access modifier for an interface method? A. public B. protected C. private D. None of the above	**A**
20.	Which of the following can be referenced by "this" variable? A. The instance variables of a class only B. The methods of a class only C. The instance variables and methods of a class	**C**

-- THE END --