Mock Test -3 (Answers):

1. Ans : b

2.Ans : 3 ( 2 will be printed as part of the output)

3.Ans : b)Complilation error

4.Ans :3 (2009finally)

5. Ans : 3 (onetwo--)

6. Ans : 3 ( 2 )

7.not having question

8.not having question

9. Ans : A) Instance variables can be used when creating a has-a relationship.

B) Inheritance represents an is-a relationship.

10. Ans : B) The class is fully encapsulated.

11.Ans : 2 "A" will be printed followed be a NullPointerException thrown

12.Ans : 3 (nullnullnullnull)

13.Ans : 3 (Child)

14.Ans : Number is printed because for all Wrapper Classes parent class is Number class

15. Ans : false true

16. Ans : 12

17) What is JVM and is it platform independent? (Java virtual machine)

A Java virtual machine (JVM) is a virtual machine that enables a computer to run Java programs as well as programs written in other languages that are also compiled to Java bytecode. The JVM is detailed by a specification that formally describes what is required in a JVM implementation.

The JVM is not platform independent. ... The JVM is used to both translate the bytecode into the machine language for a particular computer, and actually execute the corresponding machine-language instructions as well. Without the JVM, you can't run a Java application.

18) What do you mean by platform independence of Java?

Platform independence in software means that you can run the same code with little or no modification on multiple platforms

When the Java program runs in a particular machine it is sent to java compiler, which converts this code into intermediate code called bytecode. This bytecode is sent to Java virtual machine (JVM) which resides in the RAM of any operating system. ... Hence java is called platform independent language.

19) Which class is the superclass of all classes?

The Object class is the parent class of all the classes in java by default. In other words, it is the topmost class of java.

The Object class is beneficial if you want to refer any object whose type you don't know. Notice that parent class reference variable can refer the child class object, know as upcasting.

Let's take an example, there is getObject() method that returns an object but it can be of any type like Employee,Student etc, we can use Object class reference to refer that object. For example:

Object obj=getObject();//we don't know what object will be returned from this method

20) What is difference between path and classpath variables ?

Path is used define where the system can find the executables(.exe) files and classpath is used to specify the location . class files. path is set for use java tool in your java program like java, javac, javap. ... CLASSPATH is the path for Java application where the classes you compiled will be available.

21)Write a program display natural numbers in the given range using method.

**public** **class** ECC\_17\_NumbersInRange{

**public** **static** **void** main(String[] arg) {

Scanner sc = **new** Scanner(System.***in***);

System.***out***.println("Enter two numbers: \nNote: first value should be smaller than second value");

System.***out***.println(*getNaturalNumbers*(sc.nextInt(), sc.nextInt()));

}

**static** String getNaturalNumbers(**int** firstNum, **int** secNum) {

String output = "";

**if**(firstNum < 0 || secNum <0) {

output += -1;}

**else** **if**(firstNum == secNum ) {

output += -2;}

**else** {

**int** i = firstNum + 1;

**while**(i < secNum) {

output += i +" ";

i++;}

}

**return** output;

}

}

22)Write a program read "Welcome to Java" and display Emoclew Ot avaJ

public class StringFormatter {

public static String reverseWord(String str){

String words[]=str.split("\\s");

String reverseWord="";

for(String w:words){

StringBuilder sb=new StringBuilder(w);

sb.reverse();

reverseWord+=sb.toString()+" ";

}

return reverseWord.trim();

}

}

public class TestStringFormatter {

public static void main(String[] args) {

System.out.println(StringFormatter.reverseWord("Welcome To Java");

}

}

23) What a program find product of given number using Russian Multiplication?

24) What is final keyword in java?

Ans :The final keyword in java is used to restrict the user. The java final keyword can be used in many context. Final can be:variable,method,class

The final keyword can be applied with the variables, a final variable that have no value it is called blank final variable or uninitialized final variable. It can be initialized in the constructor only. The blank final variable can be static also which will be initialized in the static block only.

25)what is package and how to create our own package in java .

A package in Java is used to group related classes. Think of it as a folder in a file directory. We use packages to avoid name conflicts, and to write a better maintainable code. ... Built-in Packages (packages from the Java API) User-defined Packages (create your own packages).

How to create package in Java :

First create a directory within name of package.

Create a java file in newly created directory.

In this java file you must specify the package name with the help of package keyword.

Save this file with same name of public class. ...

26)What is an Exception and what keywords are available to handle exception comm?

Ans :Exception is disturbs the normal flow of program.try& catch blocks,throw,throws keywords are available to handle exception

27) What is this keyword and super keyword in java?

The this keyword points to a reference of the current class, while the super keyword points to a reference of the parent class. this can be used to access variables and methods of the current class, and super can be used to access variables and methods of the parent class from the subclass.

28)When will you get NullPointerException?

NullPointerException is thrown when an application attempts to use an object reference that has the null value. These include: Calling an instance method on the object referred by a null reference. Accessing or modifying an instance field of the object referred by a null reference.

Ex:Employee emp =new Employee(1,null,developer);

emp.getName();

29)How to create our own Exception in java?

User Defined Exception or custom exception is creating your own exception class and throws that exception using ‘throw’ keyword. This can be done by extending the class Exception.

30)Write a program to sort array elements in ascending order?

import java.util.Arrays;

public class SortArrayExample1

{

public static void main(String[] args)

{

//defining an array of integer type

int [] array = new int [] {90, 23, 5, 109, 12, 22, 67, 34};

//invoking sort() method of the Arrays class

Arrays.sort(array);

System.out.println("Elements of array sorted in ascending order: ");

//prints array using the for loop

for (int i = 0; i < array.length; i++)

{

System.out.println(array[i]);

}

}

}