FULL STACK DEVELOPMENT – WORKSHEET 2

Q1 to Q7 are multiple choice questions having one correct answer only.

Q1.Java method overloading implements the OOPS concept

    A. Encapsulation

    B. Inheritance

    C. Polymorphism

    D. Abstraction

Q2.Data members and member functions of a class are private by default.

    A. True

    B. False

    C. Depend on code

    D. None

Q3.Which of the following functions can be inherited from the base class?

    A. Constructor

    B. Static

    C. All

    D. None

Q4. Identify the feature, which is used to reduce the use of nested classes.

    A. Binding

    B. Abstraction

    C. Inheritance

    D. None

Q5. Which concept of Java is achieved by combining methods and attributes into a class?

    A. Encapsulation

    B. Inheritance

    C. Polymorphism

    D. Abstraction

Q6.Which of the following declarations does not compile?

   A. double num1, int num2 = 0;

   B. int num1, num2;

   C. int num1, num2 = 0;

   D. int num1 = 0, num2 = 0;

Q7.Which of these interface must contain a unique element?

   A. Set

   B. List

   C. Array

   D. collection

Q8 to Q16 you have to find output and give explanation where needed.

Q8.Predict the output?

```
package main;
class T {
 int t = 20;
}
class Main {
public static void main(String args[]) {
T t1 = new T();
System.out.println(t1.t);
 }
}
```

   A. 20

   B. 0

   C. COMPILE ERROR

Q9. What is the output of the below Java program?

```java
//bingo.java file
public class Hello
{
  public static void main(String[] args)
  {
    System.out.println("BINGO");
  }
}
```

    A. BINGO

    B. bingo

    C. 0

    D. Compile Error

Q10.What will be the output of the following Java program?

```java
class variable_scope
{
    public static void main(String args[])
    {
        int x;
        x = 5;
        {
            int y = 6;
            System.out.print(x + " " + y);
        }
        System.out.println(x + " " + y);
    }
}
```

    A. Compilation Error

    B. Runtime Error

    C. 5 6 5 6

    D. 5 6 5

Q11.What will be the output of the following Java code?

```
class String_demo
{
    public static void main(String args[])
    {
        char chars[] = {'a', 'b', 'c'};
        String s = new String(chars);
        System.out.println(s);
    }
}
```

  A. abc

  B. a

  C. b

  D. c

Q12. What will be the output of the following Java program?

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

A. 2 2

B. 3 3

C. Runtime Error

D. Compilation Error

Q13.What is output of following program

```
public class Test
{
    public int getData() //getdata() 1
    {
        return 0;
    }
    public long getData() //getdata 2
    {
        return 1;
    }
    public static void main(String[] args)
    {
        Test obj = new Test();
        System.out.println(obj.getData());
    }
}
```

A. 1

B. 0

C. Runtime Error

D. Compilation Error

Q14. What is the output of the following program?

```
public class Test{

        static int start = 2;
        final int end;
        public Test(int x) {
                x = 4;
                end = x;
        }
        public void fly(int distance) {
                System.out.println(end-start+" ");
                System.out.println(distance);
        }
    public static void main(String []args){
        new Test(10).fly(5);
    }
}
```

A. [2 5]
B. [0 0]
C. [5 2]
D. [0 2]

Q15.What is the output of the following program?

```
String john = "john";
String jon = new String(john);
System.out.println((john==jon) + " "+ (john.equals(jon)));
```

A. true true
B. true false
C. false true
D. false false

Q16. Given that Student is a class, how many reference variables and objects are created by the following code?

Student studentName, studentId;

studentName = new Student();

Student stud_class = new Student();

    A. Three reference variables and two objects are created.

    B. Two reference variables and two objects are created.

    C. One reference variable and two objects are created.

    D. Three reference variables and three objects are created.

Q17 to Q25 are simple java programs to write.

Q17. Write a java program to check even or odd number

Q18. Write a java program to find average of two numbers

Q19. Write a java program to swap two numbers

Q20. Write a java program to check whether a number is prime or not

Q21. Write a java program to find table of n

Q22. Write a java program to find the largest of three numbers.

Q23. Write a java program to calculate Simple Interest

Q24. Write a java program to calculate Area and perimeter of Rectangle

Q25. Write a java program to check whether character is vowel or consonant