

Q1.Java method overloading implements the OOPS concept

Ans : C

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

Ans : A

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

Ans : D

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

Ans : C

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

Ans : A

Q6.Which of the following declarations does not compile?

Ans: A

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

Ans : A

```
Q8. package main;
class T {
int t = 20;
}
class Main {
public static void main(String args[]) {
T t1 = new T();
System.out.println(t1.t);
}
}
```

**Ans: 20**

Explanation : In Java, member variables can assigned a value with declaration.

Q9 //bingo.java file

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

ANS: D

**EXPLANATION: The class name and the java file name should be the same. So, change either file name or class name to match.**

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

```
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);
    }
}
```

ANS: A

**EXPLANATION:** Second print statement doesn't have access to y , scope y was limited to the block defined after initialisation of x

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);
}
}

```

ANS: A

EXPLANATION: String(chars) is a constructor of class string, it initializes string s with the values stored in character array chars, therefore s contains abc

Q; 12What 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();
}
}

```

ANS:D

EXPLANATION:

Q13. 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());
}
}

```

ANS; D

EXPLANATION: For method overloading, **methods must have different signatures**. Return type of methods does not contribute towards different method signature, so the code above give compilation error. Both getdata 1 and getdata 2 only differ in return types and NOT signatures.

Q14What 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);
}
}

```

ANS: A

Q15Q15.What is the output of the following program?

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

ANS ;C

Explanation:

Q16Given 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();
```

ANS:B

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

```
ANS:import java.util.Scanner;  
  
public class EvenOdd {  
    public static void main(String[] args) {  
        Scanner reader = new Scanner(System.in);  
        System.out.print("Enter a number: ");  
        int num = reader.nextInt();  
        if(num % 2 == 0)  
            System.out.println(num + " is even");  
        else  
            System.out.println(num + " is odd");  
    }  
}
```

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

```
ANS: public class Average {  
    public static void main(String[] args) {  
  
        // take two numbers
```

```

double num1 = 12;
double num2 = 28;

// declare sum variable
// and initialize with 0
double sum = 0.0;
// declare average variable
double avg = 0.0;

// calculate the sum value
sum = num1 + num2;
// calculate the average value
avg = sum/2;

// display result
System.out.println("Average: " + avg );
}
}

```

Q19. Write a java program to swap two numbers

ANS. public class SwapNumbers {

```

    public static void main(String[] args) {

```

```

        float first = 1.20f, second = 2.45f;

```

```

        System.out.println("--Before swap--");

```

```

        System.out.println("First number = " + first);

```

```

        System.out.println("Second number = " + second);

```

```

        // Value of first is assigned to temporary

```

```

        float temporary = first;

```

```

        // Value of second is assigned to first

```

```

        first = second;

```

```

        // Value of temporary (which contains the initial value of first) is assigned to second
    }
}

```

```

        second = temporary;

        System.out.println("--After swap--");
        System.out.println("First number = " + first);
        System.out.println("Second number = " + second);
    }
}

```

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

ANS:

```

public class PrimeExample2{
static void checkPrime(int n){
    int i,m=0,flag=0;
    m=n/2;
    if(n==0||n==1){
        System.out.println(n+" is not prime number");
    }else{
        for(i=2;i<=m;i++){
            if(n%i==0){
                System.out.println(n+" is not prime number");
                flag=1;
                break;
            }
        }
        if(flag==0) { System.out.println(n+" is prime number"); }
    } //end of else
}

public static void main(String args[]){
    checkPrime(1);
    checkPrime(3);
    checkPrime(17);
    checkPrime(20);
}
}

```

Q21: Write a java program to find table of n

ANS:

```
import java.util.Scanner;

public class Multiplication_Table
{
    public static void main(String[] args)
    {
        Scanner s = new Scanner(System.in);
        System.out.print("Enter number:");
        int n=s.nextInt();
        for(int i=1; i <= 10; i++)
        {
            System.out.println(n+" * "+i+" = "+n*i);
        }
    }
}
```

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

ANS

```
import java.util.Scanner;

public class LargestNumberExample2
{
    public static void main(String[] args)
    {
        int a, b, c, largest;
        //object of the Scanner class
        Scanner sc = new Scanner(System.in);
        //reading input from the user
        System.out.println("Enter the first number:");
        a = sc.nextInt();
        System.out.println("Enter the second number:");
        b = sc.nextInt();
        System.out.println("Enter the third number:");
        c = sc.nextInt();
        largest = c > (a > b ? a : b) ? c : ((a > b) ? a : b);
        System.out.println("The largest number is: "+largest);
    }
}
```



```
}
```

Q23. Write a java program to calculate Simple Interest

ANS

```
public class Main.  
{  
    public static void main (String args[])  
    { float p, r, t, si; // principal amount, rate, time and simple interest respectively.  
      p = 28000; r = 12; t = 24;  
      si = (p*r*t)/100;  
      System.out.println("Simple Interest is: " +si);  
    }  
}
```

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

ANS

```
import java.util.Scanner;  
public class Area_Perimeter  
{  
    public static void main(String[] args)  
    {  
        int l, b, perimeter, area;  
        Scanner s = new Scanner(System.in);  
        System.out.print("Enter length of rectangle:");  
        l = s.nextInt();  
        System.out.print("Enter breadth of rectangle:");  
        b = s.nextInt();  
        perimeter = 2 * (l + b);  
        System.out.println("Perimeter of rectangle:"+perimeter);  
        area = l * b;  
        System.out.println("Area of rectangle:"+area);  
    }  
}
```

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

ANS:

```
import java.io.*;  
  
public class geek {  
  
    // Function to find whether an input  
    // character is vowel or not  
    static void Vowel_Or_Consonant(char y)  
    {  
        if (y == 'a' || y == 'e' || y == 'i' || y == 'o'  
            || y == 'u')  
            System.out.println("It is a Vowel.");  
    }  
}
```

```
        else
            System.out.println("It is a Consonant.");
    }

    // The Driver code
    static public void main(String[] args)
    {
        Vowel_Or_Consonant('b');
        Vowel_Or_Consonant('u');
    }
}
```