```
Q1. Java method overloading implements the OOPS concept
      C. Polymorphism
Q2. Data members and member functions of a class are private by
default.
      A. True
Q3. Which of the following functions can be inherited from the base
class?
      D. None
Q4. Identify the feature, which is used to reduce the use of nested
classes.
      C. Inheritance
Q5. Which concept of Java is achieved by combining methods and
attributes into a class?
      A. Encapsulation
Q6. Which of the following declarations does not compile?
      A. double num1, int num2 = 0;
Q7. Which of these interface must contain a unique element?
      A. Set
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
Q9. What is the output of the below Java program?
//bingo.java file
public class Hello {
      public static void main(String[] args)
            System.out.println("BINGO");
      }
```

```
A. BINGO
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);
B. Runtime Error
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
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]
```

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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)));
C. false true
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.
Q17. Write a java program to check even or odd number
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");
    }
}
Enter a number: 12
12 is even
Q18. Write a java program to find average of two numbers
import java.util.Scanner;
public class Average
    public static void main(String[] args)
```

```
int n1, n2;
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter number 1 :--> ");
        n1 = sc. nextInt();
        System.out.println("Enter number 2 :--> ");
        n2 = sc. nextInt();
        float avg = (n1+n2)/2;
        System.out.println("Average of (" + n1 + " + " + n2 + ") / 2
= " + avg);
Q19. Write a java program to swap two numbers
public class SwapNumber {
    // main function
    public static void main(String[] args)
    {
        int x = 500, y = 600;
        System.out.println("Before Swap");
        System. out. println("x = " + x);
        System.out.println("y = " + y);
        // Swapping using three
        // Variables
        int temp = x;
        X = y;
        y = temp;
        System.out.println("After swap");
        System.out.println("x = " + x);
        System. out. println("y = " + y);
}
Before Swap
x = 500
y = 600
After swap
x = 600
y = 500
```

```
public class PrimeNumber{
 public static void main(String args[]) {
  int i, m=0, f1ag=0;
  int n=3;//it is the number to be checked
  m=n/2;
  if(n==0|n==1)
   System.out.println(n+" is not prime number");
  } e1se {
   for (i=2; i \le 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
}
Q21. Write a java program to find table of n
import java.util.Scanner;
public class TableExample
      public static void main(String args[])
            Scanner sc = new Scanner (System. in);
            System.out.print("Enter number: ");
            int num=sc.nextInt();
            for (int i=1; i \le 10; i++)
                  System.out.println(num+" * "+i+" = "+num*i);
}
Q22. Write a java program to find the largest of three numbers.
import java.util.Scanner;
public class LargestNumberExample1
      public static void main(String[] args)
```

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

```
{
      int a, b, c, largest, temp;
      Scanner sc = new Scanner (System. in);
      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();
      temp=a>b?a:b;
      largest=c>temp?c:temp;
      System.out.println("The largest number is: "+largest);
}
Q23. Write a java program to calculate Simple Interest
import java.util.Scanner;
class SimpleInterest {
  public static void main(String[] args) {
    Scanner input = new Scanner (System. in);
    System. out. print ("Enter the principal: ");
    double principal = input.nextDouble();
    System. out. print ("Enter the rate: ");
    double rate = input.nextDouble();
    System.out.print("Enter the time: ");
    double time = input.nextDouble();
    double interest = (principal * time * rate) / 100;
    System.out.println("Principal: " + principal);
    System.out.println("Interest Rate: " + rate);
    System.out.println("Time Duration: " + time);
    System.out.println("Simple Interest: " + interest);
    input.close();
}
```

```
Q24. Write a java program to calculate Area and perimeter of
Rectangle
public class Exercise13 {
   public static void main(String[] strings) {
        final double width = 5.6;
        final double height = 8.5;
        double perimeter = 2*(height + width);
        double area = width * height;
      System. out. printf ("Perimeter is 2*(\%.1f + \%.1f) = \%.2f \n",
height, width, perimeter);
        System.out.printf("Area is %.1f * %.1f = %.2f n", width,
height, area);
}
Q25. Write a java program to check whether character is vowel or
consonant
public class VowelConsonant {
    public static void main(String[] args) {
        char ch = 'i';
        if (ch == 'a' || ch == 'e' || ch == 'i' || ch == 'o' || ch ==
'u')
            System.out.println(ch + " is vowel");
        else
            System.out.println(ch + " is consonant");
}
```