1) What will be the output of the following Java program if input given is 'abcqfghqbcd'?

```java
class Input_Output
    {
      public static void main(String args[]) throws IOException
      {
        char c;
        BufferedReader obj = new BufferedReader(new InputStreamReader(System.in));
        do
        {
          c = (char) obj.read();
            System.out.print(c);
        } while(c != 'q');
      }
    }
```

a) abcqfgh
b) abc
c) abcq
d) abcqfghq

2) What will be the output of the following Java program if input given is "abc'def/'egh"?

```java
class Input_Output
    {
      public static void main(String args[]) throws IOException
      {
        char c;
        BufferedReader obj = new BufferedReader(new InputStreamReader(System.in));
        do
        {
          c = (char) obj.read();
            System.out.print(c);
        } while(c!='\'');
      }
    }
```
a) abc'
b) abcdef/'
c) abc'def/'egh
d) abcqfghq

3) What will be the output of the following Java program?

```java
class output
    {
      public static void main(String args[])
      {
        StringBuffer c = new StringBuffer("Hello");
        System.out.println(c.length());
      }
    }
```
a) 4
b) 5
c) 6

d) 7

4) What will be the output of the following Java code?

```java
class Relational_operator
    {
        public static void main(String args[])
        {
            int var1 = 5;
            int var2 = 6;
            System.out.print(var1 > var2);
        }
    }
```
a) 1
b) 0
c) true
d) false

5) What will be the output of the following Java code?

```java
class bool_operator
    {
        public static void main(String args[])
        {
            boolean a = true;
            boolean b = !true;
            boolean c = a | b;
                boolean d = a & b;
            boolean e = d ? b : c;
            System.out.println(d + " " + e);
        }
    }
```
a) false false
b) true ture
c) true false
d) false true

6) What will be the output of the following Java code?

```java
class ternary_operator
    {
        public static void main(String args[])
        {
            int x = 3;
            int y = ~ x;
            int z;
            z = x > y ? x : y;
            System.out.print(z);
        }
    }
```
a) 0
b) 1
c) 3
d) -4

7) What will be the output of the following Java code?

```java
class Output
  {
    public static void main(String args[])
    {
      int x , y = 1;
      x = 10;
      if (x != 10 && x / 0 == 0)
        System.out.println(y);
      else
        System.out.println(++y);
    }
  }
```

a) 1
b) 2
c) Runtime error owing to division by zero in if condition
d) Unpredictable behavior of program

8) What will be the output of the following Java code?

```java
class Output
  {
    public static void main(String args[])
    {
      boolean a = true;
      boolean b = false;
      boolean c = a ^ b;
      System.out.println(!c);
    }
  }
```

a) 0
b) 1
c) false
d) true

9) 5. At line number 2 in the following code, choose 3 valid data-type attributes/qualifiers among "final, static, native, public, private, abstract, protected"

```java
public interface Status
  {
    /* insert qualifier here */ int MY_VALUE = 10;
  }
```

10) What will be the output of the following Java program?

```java
class Alligator
{
 public static void main(String[] args)
  {
   int []x[] = {{1,2}, {3,4,5}, {6,7,8,9}};
```

```
   int [][]y = x;
   System.out.println(y[2][1]);
   }
 }
```

a) 2
b) 3
c) 7
d) Compilation Error

11) 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

12) What will be the output of the following Java program?

```
  class Abc
  {
     public static void main(String[]args)
     {
         String[] elements = { "for", "tea", "too" };
         String first = (elements.length > 0) ? elements[0]: null;
     }
  }
```
a) Compilation error
b) An exception is thrown at run time
c) The variable first is set to null
d) The variable first is set to elements[0]

13) What will be the output of the following Java program?

```
    class A
    {
        int i;
        public void display()
        {
            System.out.println(i);
        }
    }
    class B extends A
```

```
    {
        int j;
        public void display()
        {
            System.out.println(j);
        }
    }
    class Dynamic_dispatch
    {
        public static void main(String args[])
        {
            B obj2 = new B();
            obj2.i = 1;
            obj2.j = 2;
            A r;
            r = obj2;
            r.display();
        }
    }
```
a) 1
b) 2
c) 3
d) 4

14) In the following Java code, what can directly access and change the value of the variable name?
```
package test;
 class Target
 {
  public String name = "hello";
 }
```
a) any class
b) only the Target class
c) any class in the test package
d) any class that extends Target

15) What will be the output of the following Java code?

```
public class Boxer1
{
    Integer i;
    int x;
    public Boxer1(int y)
    {
        x = i+y;
        System.out.println(x);
    }
    public static void main(String[] args)
    {
        new Boxer1 (new Integer(4));
    }
}
```
a) The value "4" is printed at the command line
b) Compilation fails because of an error in line
c) A NullPointerException occurs at runtime
d) An IllegalStateException occurs at runtime

16) What will be the output of the following Java code?

```
    class output
    {
        public static void main(String args[])
        {
```

```
            String c = "Hello i love java";
            int start = 2;
            int end = 9;
            char s[]=new char[end-start];
            c.getChars(start,end,s,0);
            System.out.println(s);
        }
    }
```
a) Hello, i love java
b) i love ja
c) lo i lo
d) llo i l

17) What will be the output of the following Java code?

```
class output
    {
        public static void main(String args[])
        {
            String a = "hello i love java";
            System.out.println(a.indexOf('i')+" "+a.indexOf('o') +"
"+a.lastIndexOf('i')+" "+a.lastIndexOf('o'));
        }
    }
```
a) 6 4 6 9
b) 5 4 5 9
c) 7 8 8 9
d) 4 3 6 9

18) What will be the output of the following Java code?

```
    class output
    {
        public static void main(String args[])
        {
            char c[]={'a', '1', 'b' ,' ' ,'A' , '0'};
            for (int i = 0; i < 5; ++i)
            {
                    if(Character.isDigit(c[i]))
                        System.out.println(c[i]+" is a digit");
                    if(Character.isWhitespace(c[i]))
                        System.out.println(c[i]+" is a Whitespace character");
                    if(Character.isUpperCase(c[i]))
                        System.out.println(c[i]+" is an Upper case Letter");
                    if(Character.isLowerCase(c[i]))
                        System.out.println(c[i]+" is a lower case Letter");
                i=i+3;
            }
        }
    }
```
a)

    a is a lower case Letter
      is White space character
b)

    b is a lower case Letter
      is White space character
c)

    a is a lower case Letter
    A is an upper case Letter
d)

```
    a is a lower case Letter
    0 is a digit
```

19) What will be the output of the following Java code?

```java
class output
{
    public static void main(String args[])
    {
        char ch;
        ch = "hello".charAt(1);
        System.out.println(ch);
    }
}
```
a) h
b) e
c) l
d) o

20) What will be the output of the following Java code?

```java
class average {
    public static void main(String args[])
    {
        double num[] = {5.5, 10.1, 11, 12.8, 56.9, 2.5};
        double result;
        result = 0;
        for (int i = 0; i < 6; ++i)
            result = result + num[i];
        System.out.print(result/6);

    }
}
```
a) 16.34
b) 16.566666644
c) 16.46666666666667
d) 16.46666666666666

21) What will be the output of the following Java statement?
```java
class output {
    public static void main(String args[])
    {
        double a, b,c;
        a = 3.0/0;
        b = 0/4.0;
        c=0/0.0;

        System.out.println(a);
        System.out.println(b);
        System.out.println(c);
    }
}
```

a) Infinity
b) 0.0
c) NaN
d) all of the mentioned

22) What will be the output of the following Java code?

```java
class increment {
    public static void main(String args[])
    {
        int g = 3;
```

```
            System.out.print(++g * 8);
        }
    }
```
a) 25
b) 24
c) 32
d) 33

23) What will be the output of the following Java code?

```
    class area {
        public static void main(String args[])
        {
            double r, pi, a;
            r = 9.8;
            pi = 3.14;
            a = pi * r * r;
            System.out.println(a);
        }
    }
```
a) 301.5656
b) 301
c) 301.56
d) 301.56560000

24) What will be the output of the following Java code snippet?
```
double a = 0.02;
   double b = 0.03;
   double c = b - a;
   System.out.println(c);

   BigDecimal _a = new BigDecimal("0.02");
   BigDecimal _b = new BigDecimal("0.03");
   BigDecimal _c = b.subtract(_a);
   System.out.println(_c);
```
a)

```
   0.009999999999999998
   0.01
```
b)

```
   0.01
   0.009999999999999998
```
c)

```
   0.01
   0.01
```
d)

```
   0.009999999999999998
   0.009999999999999998
```

25) What will be the output of the following Java code snippet?

```
public class AddDemo
{
      public static void main(String args[])
        {
            BigDecimal b = new BigDecimal("23.43");
            BigDecimal br = new BigDecimal("24");
            BigDecimal bres = b.add(new BigDecimal("450.23"));
            System.out.println("Add: "+bres);
```

```
            MathContext mc = new MathContext(2, RoundingMode.DOWN);
            BigDecimal bdecMath = b.add(new BigDecimal("450.23"), mc);
            System.out.println("Add using MathContext: "+bdecMath);
      }
}
```
a) Compilation failure
b)

Add: 473.66
Add using MathContext: 4.7E+2
c)

Add 4.7E+2
Add using MathContext: 473.66

26) What is the prototype of the default constructor of this Java class?

    public class prototype { }
a) prototype( )
b) prototype(void)
c) public prototype(void)
d) public prototype( )

27) What will be the output of the following Java code?

```
    class char_increment
    {
        public static void main(String args[])
        {
            char c1 = 'D';
            char c2 = 84;
            c2++;
            c1++;
            System.out.println(c1 + " "  + c2);
        }
    }
```
a) E U
b) U E
c) V E
d) U F

28) What will be the output of the following Java code?

```
    class conversion
    {
        public static void main(String args[])
        {
            double a = 295.04;
            int  b = 300;
            byte c = (byte) a;
            byte d = (byte) b;
            System.out.println(c + " "  + d);
        }
    }
```

a) 38 43
b) 39 44
c) 295 300
d) 295.04 300

29) What will be the output of the following Java code?
```

```
class A
{
    final public int calculate(int a, int b) { return 1; }
}
class B extends A
{
    public int calculate(int a, int b) { return 2; }
}
 public class output
  {
    public static void main(String args[])
    {
        B object = new B();
        System.out.print("b is " + b.calculate(0, 1));
    }
}
```
a) b is : 2
b) b is : 1
c) Compilation Error
d) An exception is thrown at runtime

30) What will be the output of the following Java program, if we run as "java main_arguments 1 2 3"?

```
class main_arguments
{
    public static void main(String [] args)
    {
        String [][] argument = new String[2][2];
        int x;
        argument[0] = args;
        x = argument[0].length;
        for (int y = 0; y < x; y++)
            System.out.print(" " + argument[0][y]);
    }
}
```
a) 1 1
b) 1 0
c) 1 0 3
d) 1 2 3

--------------------------------------------------------------------------------
                              **ALL THE BEST**
--------------------------------------------------------------------------------