

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

```
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"?

```
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 != '\n');
    }
}
```

- a) abc'
- b) abcdef'
- ☒ c) abc'def'egh
- d) abcqfghq

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

```
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?

```
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?

```
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?

```
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?

```
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?

```
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”

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

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

```
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', 'l', '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?

```
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?

```
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) 16.5666666644
- ☒ c) 16.466666666666667
- d) 16.466666666666666

21) What will be the output of the following Java statement?

```
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?

```
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
