

Day 1 Assessment

Section 1: Operator Precedence and Evaluation

Question 1:

Java

```
int x = 15;
```

```
x += x++ + ++x;
```

What is the final value of x?

A.) 43

B.) 35

C.) 47

D.) 46

Question 2:

Java

```
int a = 10, b = 5;
```

```
int c = a-- --b + ++a;
```

What is the final value of c?

A.) 14

B.) 16

C.) 12

D.) 17

Question 3:

Java

```
double result = 20 / 4 * 2.5 + 3 % 2;
```

What is the value of result?

A.) 12

B.) 11

C.) 13.5

D.) C.T.E (Compile-Time Error)

Question 4:

Java

```
int m = 8, n = 5;
```

```
m *= n += 3;
```

What are the values of m and n?

A.) m = 64, n = 8

B.) m = 54, n = 9

C.) m = 65, n = 10

D.) None of the above

Question 5:

Java

```
int p = 15;
```

```
p += p -= p *= 2;
```

What is the value of p?

A.) 11

B.) 0

C.) 10

D.) 14

Question 6:

Java

```
double x = 10.5;
```

```
x *= x += x /= 2;
```

What is the value of x?

A.) 313.43

B.) 115.45

C.) 165.375

D.) None of the above

Question 7:

Java

```
int i = 5;
```

```
int j = i++ + ++i + i-- + --i;
```

What is the value of i and j?

A.) i = 5, j = 24

B.) i = 6, j = 27

C.) i = 7, j = 11

D.) C.T.E (Compile-Time Error)

Question 8:

Java

```
int a = 8;
```

```
int b = ++a + a++ + --a + a--;
```

What are the values of a and b?

A.) a = 36, b = 9

B.) a = 12, b = 44

C.) a = 8, b = 36

D.) a = 8, b = 37

Question 9:

Java

```
int x = 3, y = 4;
```

```
int z = ++x * y-- + x++ * ++y;
```

What are the values of x, y, and z?

A.) x = 5, y = 4, z = 32

B.) x = 4, y = 6, z = 35

C.) x = 3, y = 8, z = 43

D.) None of the above

Section 2: Boolean Logic

Question 10:

Java

```
boolean a = true, b = false;
```

```
boolean c = !a || b && a || !b;
```

What is the value of c?

A.) true

B.) false

C.) C.T.E (Compile-Time Error)

D.) None of the above

Question 11:

Java

```
boolean p = true, q = true, r = false;
```

```
boolean s = !(p || q) && r || !(p && r);
```

What is the value of s?

A.) true

B.) false

C.) C.T.E (Compile-Time Error)

D.) None of the above

Question 12:

Java

```
boolean x = true, y = false;
```

```
boolean z = !(x && !y) || (!x || y);
```

What is the value of z?

A.) true

B.) false

C.) C.T.E (Compile-Time Error)

D.) None of the above

Section 3: Mixed Operators and Complex Expressions

Question 13:

Java

```
int a = 10, b = 5;
```

```
boolean result = (a++ > --b) && (++a > b--);
```

What are the values of a, b, and result?

A.) a = 11, b = 12, result = false

B.) a = 12, b = 3, result = true

C.) a = 10, b = 4, true

D.) None of the above

Question 14:

Java

```
int x = 8, y = 3;
```

```
int z = x++ * --y + y++ * x--;
```

What are the values of x, y, and z?

A.) 8, 3, 34

B.) 3, 4, 12

C.) 9, 4, 34

D.) 8, 3, 35

Question 15:

Java

```
int m = 15, n = 10;
```

```
boolean flag = (m -= 5) >= (n += 3) && (m += 2) < (n *= 2);
```

What are the values of m, n, and flag?

A.) 12, 26, false

B.) 10, 13, false

C.) 12, 25, true

D.) None of the above

Question 16:

Java

```
int a = 8, b = 3;
```

```
double result = (--a * ++b) + (a-- % ++b);
```

What are the values of a, b, and result?

A.) 4, 5, 25

B.) 6, 5, 28

C.) 6, 5, 28.0

D.) 6, 5, 30.0

Question 17:

Java

```
int m = 12, n = 5;
```

```
double result = m++ / --n + ++m % n++;
```

What are the values of m, n, and result?

A.) 14, 5, 5.0

B.) 14, 6, 14.0

C.) 14, 6, 14 (This implies an int result, but the variable is double)

D.) None of the above

Question 18:

Java

```
boolean x = true, y = false;
```

```
boolean z = !(x || y && !x) || (y && x || !y);
```

What is the value of z?

A.) false

B.) true

C.) C.T.E (Compile-Time Error)

D.) None of the above

Question 19:

Java

```
boolean p = true, q = true, r = false;
```

```
boolean result = (p || q && r) && (!p || !q) || (q && !r);
```

What is the value of result?

- A.) false
- B.) true
- C.) C.T.E (Compile-Time Error)
- D.) None of the above

Question 20:

Java

```
int m = 30, n = 20;
```

```
int p = m-- + ++n - m++ * --n;
```

What are the values of m, p, n?

- A.) 30, 20, 521
- B.) 30, 19, -520
- C.) 30, 19, -529
- D.) 30, 19, -529

Question 21:

Java

```
int a = 3;
```

```
int b = 4;
```

```
boolean result = (a || b) && (b <= a);
```

What is the value of result?

- A.) true
- B.) false
- C.) C.T.E (Compile-Time Error)
- D.) None of the above

Question 22:

Java

```
int x = 8, y = 5, z = 3;
```

```
double result = x++ * --y + ++z * y-- - --x * ++z / y++;
```

What are the values of x, y, z, result?

A.) 8, 5, 4, 34.67

B.) 8, 6, 33, 67

C.) 8, 5, 33, 67

D.) 8, 5, 4, 33.67

Question 23:

Java

```
int m = 10, n = 20, p = 15;
```

```
int result = (m > n ? m++ : n--) + (n > p ? n++ : p++) * (p > m ? p-- : m++);
```

What are the values of m, n, and p?

A.) 11, 14, 20, 305

B.) 12, 14, 24, 303

C.) 10, 20, 14, 305

D.) 10, 11, 14, 305

Section 4: Java Fundamentals

Question 24:

Java

```
public static void main(String[] args)
```

```
{
```

```
    int x;
```

```
    System.out.println(x);
```

```
}
```

What is the value of x?

A.) 0

B.) C.T.E (Compile-Time Error)

C.) None of the above

Question 25:

Java

```
class _Program1
{
    public static void main(String[] args)
    {
        int System = 1;
        String laptopType = "Business Laptop";

        System.out.println(System);
        System.out.println(laptopType);
    }
}
```

Trace the output:

- A.) 1, Business Laptop
- B.) C.T.E (Compile-Time Error)
- C.) None of the above

Question 26:

The data types that are accepted by the switch statement?

- A.) String, char, long
- B.) int, short, float
- C.) double, boolean, byte
- D.) String, char, int

Question 27:

What are the keywords used to implement a SWITCH case in Java language?

- A.) switch, case
- B.) default
- C.) break
- D.) All of the above

Question 28:

Number of Primitive Data types in Java are?

- A.) 8
- B.) 7
- C.) 6
- D.) 9

Question 29:

Which of these selection statements test only for equality?

- A.) if
- B.) switch
- C.) if & switch
- D.) All of the above

Question 30:

What are tokens?

- A. What are tokens?
- B. Tokens are notes used to print the data
- C. Tokens is a smallest unit of Java programming language
- D. None of the above

Question 31:

What are the types of tokens?

- A. Variables, JDK, JRE
 - B. Variables, Methods, Initializers
 - C. Both A and B
 - D. Keywords, Identifiers, Literals
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