

Java MCQ Test - I (Alpha 4.0)

Total points 28/40

Rules :

- a. Total Questions = 20
- b. Total Marks = 40
- c. The number of marks with each question may vary.
- d. There is no negative marking for incorrect & unanswered questions.
- e. Please don't cheat & solve on your own as this quiz is for your practice only.

All the best :)

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✗ (1 Mark)

0/1

Out of these statements, which ones are incorrect?

- ☒ The Brackets () have the highest precedence ✗
- ☐ The equal to = operator has the lowest precedence
- ☐ The addition operator + and the subtraction operator – have an equal precedence
- ☐ The division operator / has comparatively higher precedence as compared to a multiplication operator

Correct answer

- ☒ The division operator / has comparatively higher precedence as compared to a multiplication operator

Feedback

Both, division & multiplication operator have the same precedence.



✓ (1 Mark)

Which one of the following is a Unary operator in Java?

☐ ()

☐ *

☐ +

☒ ++



Feedback

++ & – are unary operators.

✓ (1 Mark)

1/1

Number of primitive data types in Java are?

☐ 6

☐ 7

☒ 8

☐ 9



Feedback

There are 8 types of primitive data types- int, char, boolean, byte, long, float, short, double.



✓ (1 Mark)

1/1

Which type of loop is guaranteed to have the body execute at least once?

- ☒ do-while loop
- ☐ for (traditional)
- ☐ for-each
- ☐ while



Feedback

A do-while loop checks the loop condition after execution of the loop body. This ensures it always executes at least once, and Option A is correct.



✓ (4 Marks)

4/4

What will be the output of the following program?

```
int count = 1;
while (count <= 15) {
    System.out.println(count % 2 == 1 ? "***" : "+++++");
    ++count;
}
```

- ☐ 15 times ***
- ☐ 15 times +++++
- ☒ 8 times *** and 7 times +++++ ✓
- ☐ Both will print only once

Feedback

*In the above code, we have declared count = 1. The value of count will be increased till 14 because of the while (count<=15) statement. If the remainder is equal to 1 on dividing the count by 2, it will print (***) else print (+++++). Therefore, for all odd numbers till 15 (1, 3, 5, 7, 9, 11, 13, 15), it will print (***), and for all even numbers till 14 (2, 4, 6, 8, 10, 12, 14) it will print (+++++).*

*Hence, an asterisk (***) will be printed eight times, and plus (+++++) will be printed seven times.*



✓ (2 Marks)

2/2

Find the output of the following code.

```
int x = 5;  
x * = (3 + 7);  
System.out.println(x);
```

- ☒ 50
- ☐ 22
- ☐ 10
- ☐ none



Feedback

$x * = 3 + 7$ is equivalent to $x * (3 + 7) = x * 10$. Therefore, $x = 50$.



✓ (2 Marks)

2/2

Find the output of the following code.

```
int i;  
for(i = 1; i < 6; i++){  
    if(i > 3) continue;  
}  
System.out.println(i)
```

- ☐ 3
- ☐ 4
- ☐ 5
- ☒ 6



Feedback

Since, the loop runs till 6, the value of i is 6.



✖ (3 Marks)

0/4

Evaluate the following Java expression, if $x=3$, $y=5$, and $z=10$:

$++z + y - y + z + x++$

☒ 24

✖

☐ 23

☐ 20

☐ 25

Correct answer

☒ 25

Feedback

In the above expression, $++z$ means that the value will first increment by 1, i.e. 12. Now, evaluate the statement by putting the values of x , y , and z . On evaluating the expression, we get 25, as shown below.

$++z + y - y + z + x++$
 $11 + 5 - 5 + 11 + 3 = 25$

Hence, the correct answer is option (d).



✖ (2 Marks)

0/2

How many times will "Apna College" be printed.

```
int count = 0;
do{
    System.out.println("Apna College");
    count++;
} while(count < 10);
```

- ☐ 8
- ☐ 9
- ☐ 10
- ☒ 11

✖

Correct answer

- ☒ 10

Feedback

"Apna College" will be printed 10 times, starting from count = 0.



✓ (1 Mark)

1/1

Identify the infinite loop.

- ☐ for(;;)
- ☐ for(int i=0; i<1; i--)
- ☐ for(int i=0; ; i++)
- ☒ all of the above



Feedback

All of the above are infinite loop.

✓ (1 Mark)

1/1

What is the size of float and double in java?

- ☐ 32 & 32
- ☒ 32 & 64
- ☐ 64 & 64
- ☐ 64 & 32



Feedback

The size of float and double in java is 32 and 64.



✓ (3 Marks)

3/3

What is the value of tip after executing the following code?

```
int meal = 5;  
int tip = 2;  
int total = meal + (meal > 6 ? ++tip : --tip);
```

- ☒ 1
- ☐ 2
- ☐ 3
- ☐ 6



Feedback

In ternary expressions, only one of the two right-most expressions are evaluated. Since `meal > 6` is false, `--tip` is evaluated and `++tip` is skipped. `tip` is changed from 2 to 1 and `total` becomes `meal + (1)` which means `5 + 1 = 6`.



✓ (2 Marks)

2/2

Find the output of the following code.

```
int ++a = 100;  
System.out.println(++a);
```

- ☐ 101
- ☒ Compiler error as ++a is not a valid identifier
- ☐ 100
- ☐ none of the above



Feedback

It shows compile error as ++a is not valid identifier.

✓ (1 Mark)

1/1

Java is case sensitive language. (true/false)

- ☒ True
- ☐ False



Feedback

Java is a case sensitive language i.e. why int age & int Age are 2 different variables.



✓ (1 Mark)

1/1

Identify the return type of a method that does not return any value.

- ☐ int
- ☒ void
- ☐ double
- ☐ none



Feedback

void does not return any value.



✓ (3 Marks)

3/3

What is the output?

```
int a = 10;  
System.out.println(a--*a--);
```

☐ 100

☒ 90

☐ 99

☐ 72



Feedback

*It is evaluated as 10*9.*



✖ (1 Mark)

0/1

Automatic type conversion is possible in which of the possible cases?

- ☐ int to char
- ☐ int to long
- ☒ long to int
- ☐ long to byte

✖

Correct answer

- ☒ int to long

Feedback

Automatic type conversion is possible in Int to long.



✓ (1 Mark)

1/1

Find the output of the following code.

```
if(1 + 1 + 1 + 1 + 1 == 5){  
    System.out.print("TRUE");  
} else{  
    System.out.print("FALSE");  
}
```

- ☒ True
- ☐ False
- ☐ Compiler Error
- ☐ None



Feedback

Since, LHS matches RHS, hence the output is TRUE.



✖ (4 Marks)

0/4

Which of the following code segments will produce the displayed output?

1

22

333

4444

55555



I.

```
for (int i = 1; i <= 5; i++) {  
    for (int j = i; j > 0; j--) {  
        System.out.print(i);  
    }  
    System.out.println();  
}
```

II.

```
for (int i = 0; i < 5; i++) {  
    for (int j = 0; j < i; j++) {  
        System.out.print(i);  
    }  
    System.out.println();  
}
```

III.

```
for (int i = 1; i < 5; i++) {  
    for (int j = i; j > 0; j--) {  
        System.out.print(i);  
    }  
    System.out.println();  
}
```

IV.

```
for (int i = 1; i < 6; i++) {  
    for (int j = 0; j < i; j++) {  
        System.out.println(i);  
    }  
}
```

V.

```
for (int i = 0; i < 5; i++) {  
    for (int j = 0; j < i; j++) {
```



```
        System.out.print(i+1);  
    }  
    System.out.println();  
}
```

- ☐ Option I
- ☐ Option II
- ☐ Option III
- ☒ Option IV
- ☐ Option V



Correct answer

- ☒ Option I

Feedback

Answer is Option I.

This will loop with i changing from 1 to 5 and then for each i, j will loop from i to 0 printing the value of i and then a new line.



✓ (5 Marks)

5/5

Which of the following code segments will produce the displayed output?

11111

2222

333

44

5



- I. `for (int j = 1; j <= 5; j++) {
 for (int k = 1; k <= j; k++) {
 System.out.print(j + " ");
 }
 System.out.println();
}`
- II. `for (int j = 1; j <= 5; j++) {
 for (int k = 5; k >= 1; k--) {
 System.out.print(j + " ");
 }
 System.out.println();
}`
- III. `for (int j = 1; j <= 5; j++) {
 for (int k = 5; k >= j; k--) {
 System.out.print(j + " ");
 }
 System.out.println();
}`
- IV. `for (int j = 1; j <= 5; j++) {
 for (int k = 1; k <= 5; k++) {
 System.out.println(j + " ");
 }
}`
- V. `for (int j = 1; j <= 5; j++) {
 for (int k = j; k <= 5; k++) {`



```
        System.out.print(k + " ");  
    }  
    System.out.println();  
}
```

- ☐ Option I
- ☐ Option II
- ☒ Option III
- ☐ Option IV
- ☐ Option V

**Feedback**

This will loop with j from 1 to 5 and k from 5 to j and print out the value of j and a space. So the first time through the loop it will print 1 five times and the next time it will print out 2 four times and so on.

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