Python Assignment Operators Quiz

Instructions:

- Choose the correct answer from the options provided.
- There are 50 questions in total.

Question 1:

Which of the following is the correct usage of the assignment operator?

1. a := 10
2. a == 10
3. a = 10
4. a => 10

Question 2:

What does the following statement do?

a = b + c

1. It adds b and c and assigns the result to a.
2. It checks if b and c are equal and assigns the result to a.
3. It compares a with b + c.
4. It divides b by c and assigns the result to a.

Question 3:

What is the result of the following statement?

a += 5

1. a is increased by 5 and assigned to itself.
2. a is decreased by 5.
3. a is multiplied by 5.
4. a is divided by 5.

Question 4:

Which of the following is the augmented assignment operator for multiplication?

1. *=
2. +=
3. -=
4. /=

Question 5:

If a = 10, what is the result of a -= 3?

1. 7
2. 13
3. 10
4. 3

Question 6:

Which assignment operator is used to assign the remainder of division?

1. //=
2. %=
3. **=
4. /=

Question 7:

What does the **= operator do?

1. Raises the left operand to the power of the right operand and assigns the result.
2. Multiplies the left operand by the right operand and assigns the result.
3. Divides the left operand by the right operand and assigns the result.
4. Subtracts the right operand from the left operand and assigns the result.

Question 8:

If x = 4, what is the result of x **= 2?

1. 16
2. 8
3. 6
4. 4

Question 9:

Which of the following statements is incorrect about assignment operators?

1. They perform an operation and assign the result to the left operand.
2. a = b assigns the value of b to a.
3. a %= b divides a by b and assigns the result.
4. a /= b divides a by b and assigns the result.

Question 10:

What is the result of x = 10; x //= 3?

1. 3
2. 1
3. 3.33
4. 2

Question 11:

Which operator is used for bitwise AND assignment?

1. |=
2. &=
3. ^=
4. <<=

Question 12:

If y = 6, what is the result of y |= 3?

1. 7
2. 6
3. 3
4. 9

Question 13:

What does the ^= operator do?

1. Performs bitwise XOR on the operands and assigns the result.
2. Performs bitwise AND on the operands and assigns the result.
3. Performs bitwise OR on the operands and assigns the result.
4. Left shifts the left operand and assigns the result.

Question 14:

Which of the following correctly represents the left shift assignment operator?

1. >>=
2. <<=
3. >>>
4. <<<

Question 15:

If z = 1, what is the result of z <<= 2?

1. 4
2. 2
3. 1
4. 3

Question 16:

What is the difference between x = y and x == y?

1. x = y assigns the value of y to x, while x == y checks if x is equal to y.
2. x = y checks if x is equal to y, while x == y assigns the value of y to x.
3. Both are assignment operators.
4. Both are comparison operators.

Question 17:

What is the result of the following code?

```
x = 5
x %= 2
```

1. 1
2. 0
3. 2
4. 5

Question 18:

Which operator is used for bitwise OR assignment?

1. &=
2. ^=
3. |=
4. <<=

Question 19:

What does the //= operator do?

1. Divides the left operand by the right operand and assigns the floor value of the result.
2. Divides the left operand by the right operand and assigns the result.
3. Performs bitwise XOR on the operands and assigns the result.
4. Raises the left operand to the power of the right operand and assigns the result.

Question 20:

If a = 9, what is the result of a //= 2?

1. 4
2. 4.5
3. 3
4. 5

Question 21:

Which assignment operator is used to assign the result of division?

1. //=
2. %=
3. /=
4. **=

Question 22:

What does the &= operator do?

1. Performs bitwise AND on the operands and assigns the result.
2. Performs bitwise OR on the operands and assigns the result.
3. Performs bitwise XOR on the operands and assigns the result.
4. Left shifts the left operand and assigns the result.

Question 23:

If b = 7, what is the result of b &= 3?

1. 3
2. 7
3. 4
4. 1

Question 24:

Which operator is used for bitwise XOR assignment?

1. |=
2. &=
3. ^=
4. <<=

Question 25:

What does the <<= operator do?

1. Left shifts the left operand by the number of bits specified by the right operand and assigns the result.
2. Right shifts the left operand by the number of bits specified by the right operand and assigns the result.
3. Performs bitwise OR on the operands and assigns the result.
4. Performs bitwise XOR on the operands and assigns the result.

Question 26:

Which of the following statements is correct?

1. a += b is equivalent to a = a + b.
2. a -= b is equivalent to a = b - a.
3. a *= b is equivalent to a = b * a.
4. a /= b is equivalent to a = b / a.

Question 27:

What is the result of x = 15; x %= 4?

1. 3
2. 15
3. 4
4. 2

Question 28:

Which of the following is not an assignment operator in Python?

1. +=
2. -=
3. **
4. //=

Question 29:

If a = 2, what is the result of a **= 3?

1. 8
2. 6
3. 9
4. 5

Question 30:

Which operator is used to assign the result of floor division?

1. /=
2. //=
3. %=
4. **=

Question 31:

What does the /= operator do?

1. Divides the left operand by the right operand and assigns the result.
2. Divides the left operand by the right operand and assigns the floor value of the result.
3. Multiplies the left operand by the right operand and assigns the result.
4. Subtracts the right operand from the left operand and assigns the result.

Question 32:

If c = 10, what is the result of c /= 4?

1. 2.5
2. 2
3. 4
4. 5

Question 33:

Which of the following is the bitwise shift right assignment operator?

1. <<=
2. >>=
3. |=
4. &=

Question 34:

What is the result of d = 8; d >>= 2?

1. 2
2. 4
3. 6
4. 8

Question 35:

Which operator is used to perform floor division assignment?

1. /=
2. //=
3. %=
4. **=

Question 36:

What is the result of e = 10; e //= 3?

1. 3
2. 1
3. 3.33
4. 2

Question 37:

Which of the following is the correct syntax for the modulo assignment operator?

1. a %= b
2. a % b
3. a => b
4. a // b

Question 38:

What is the result of f = 14; f %= 5?

1. 4
2. 2
3. 3
4. 1

Question 39:

If g = 4, what is the result of g *= 3?

1. 12
2. 7
3. 1
4. 3

Question 40:

Which operator is used for exponentiation assignment?

1. **=
2. //=
3. ^=
4. &=

Question 41:

What is the result of h = 5; h **= 2?

1. 25
2. 10
3. 7
4. 2

Question 42:

What is the output of i = 10; i &= 6?

1. 2
2. 4
3. 6
4. 10

Question 43:

Which operator is used to assign the bitwise OR operation result?

1. |=
2. &=
3. ^=
4. <<=

Question 44:

What does j ^= 2 do if j = 5?

1. Performs bitwise XOR between j and 2 and assigns the result to j.
2. Performs bitwise AND between j and 2 and assigns the result to j.
3. Performs bitwise OR between j and 2 and assigns the result to j.
4. Left shifts j by 2 and assigns the result.

Question 45:

If k = 20, what is the result of k >>= 3?

1. 2
2. 5
3. 1
4. 3

Question 46:

What is the result of the following code?

l = 7

l |= 2

1. 7
2. 5
3. 9
4. 2

Question 47:

Which operator is used for the right shift assignment?

1. <<=
2. >>=
3. |=
4. &=

Question 48:

What is the result of m = 15; m //= 4?

1. 3
2. 2
3. 4
4. 1

Question 49:

What is the result of n = 9; n %= 2?

1. 1
2. 0
3. 2
4. **4.** 9

Question 50:

If p = 3, what is the result of p **= 3?

1. 27
2. 9
3. 3
4. 1