Python Quiz: 25 Questions Covering All Topics 🔥

This quiz covers **Variables, Data Types, Keywords, Comments, Operators, Type Conversion, and Input in Python**.

Section 1: Variables & Data Types (5 Questions)

Q1: Which of the following is a valid variable name in Python?

a) `2name`
b) `_my_var`
c) `my-var`
d) `if`

Q2: What is the output of the following code?

```
x = "10"
y = 5
print(x * y)
```

a) `50`
b) `1010101010`
c) `Error`
d) `15`

Q3: Which data type does the following belong to?

```
x = (10,)
```

a) `List`
b) `Tuple`
c) `Set`
d) `Dictionary`

Q4: What is the default data type of user input from `input()`?

a) `int`
b) `float`
c) `string`
d) `bool`

Q5: Which of the following is immutable in Python?

a) `list`
b) `tuple`

c) `set`
d) `dictionary`

Section 2: Keywords & Comments (5 Questions)

Q6: How many keywords are there in Python 3?

a) 30
b) 33
c) 35
d) 37

Q7: Which of the following is not a Python keyword?

a) `pass`
b) `import`
c) `return`
d) `function`

Q8: What will happen if you execute the following code?

```python
# This is a comment
print("Hello World!")  # Another comment
```

a) Only `"Hello World!"` is printed
b) An error occurs
c) # symbols will be printed
d) Comments are stored in a variable

Q9: What is the correct way to write a multi-line comment in Python?

a) `// This is a comment`
b) `/* This is a comment */`
c) `""" This is a comment """`
d) `-- This is a comment`

Q10: What does the following code output?

```python
def func():
    """This function prints a message."""
    print("Hello!")

print(func.__doc__)
```

a) `"Hello!"`
b) `None`
c) `"This function prints a message."`
d) `Error`

Section 3: Operators (5 Questions)

Q11: What is the output of `10 % 3`?

a) `3.33`
b) `1`
c) `0`
d) `10`

Q12: What will `print(5 != 5)` output?

a) `True`
b) `False`
c) `Error`
d) `None`

Q13: What will be the result of `True and False or True`?

a) `True`
b) `False`
c) `Error`
d) `None`

Q14: Which of these operators is used for floor division in Python?

a) `/`
b) `//`
c) `%`
d) `**`

Q15: What will be the output of `10 >> 2`?

a) `40`
b) `2`
c) `0`
d) `2.5`

Section 4: Type Conversion (5 Questions)

Q16: What will be the data type of the result of `int(5.9)`?

a) `float`
b) `int`

c) `str`
d) `NoneType`

Q17: What is the output of the following?

```
s = "200"
num = int(s)
print(num + 100)
```

a) `200100`
b) `300`
c) `Error`
d) `"200100"`

Q18: Which of the following will return `False`?

a) `bool(1)`
b) `bool(0)`
c) `bool("Python")`
d) `bool([1, 2, 3])`

Q19: What will `tuple([1, 2, 3])` return?

a) `[1, 2, 3]`
b) `{1, 2, 3}`
c) `(1, 2, 3)`
d) `Error`

Q20: What is the output of `str(10) + str(20)`?

a) `30`
b) `1020`
c) `Error`
d) `None`

Section 5: Input in Python (5 Questions)

Q21: What is the correct way to take user input as an integer?

a) `x = input("Enter a number")`
b) `x = int(input("Enter a number"))`
c) `x = float(input("Enter a number"))`
d) `x = str(input("Enter a number"))`

Q22: What will happen if you enter `3.14` in this code?

```
x = int(input("Enter a number: "))
```

a) `3`

b) `Error`

c) `3.14`

d) `None`

Q23: What will be the output of the following code?

```
x, y = input("Enter two numbers: ").split()
print(x, y)
```

If the input is: `5 10`

a) `['5', '10']`

b) `5 10`

c) `Error`

d) `(5, 10)`

Q24: What will be stored in `numbers`?

```
numbers = [int(x) for x in input("Enter numbers: ").split()]
```

If input is: `1 2 3 4`

a) `['1', '2', '3', '4']`

b) `[1, 2, 3, 4]`

c) `(1, 2, 3, 4)`

d) `Error`

Q25: What is the correct way to take space-separated words as input and store them in a list?

a) `words = input().split()`

b) `words = list(input())`

c) `words = tuple(input())`

d) `words = set(input())`

Let's Check Your Answers! ✅❌

Section 1: Variables & Data Types

1 **(b)** ✅ **Correct!** `_my_var` is a valid variable name.

2 **(b)** ✅ **Correct!** `"10" * 5` repeats the string → `1010101010`.

3 **(b)** ✅ **Correct!** `(10,)` is a **tuple** (comma is important).

4 **(c)** ✅ **Correct!** `input()` always returns a **string**.

5 **(b)** ✅ **Correct!** `tuple` is **immutable**.

✔ **Score: 5/5** 🎯

Section 2: Keywords & Comments

6 **(c)** ✓ **Correct!** Python 3 has **35 keywords**.
7 **(d)** ✓ **Correct!** `"function"` is **not** a Python keyword.
8 **(a)** ✓ **Correct!** Comments are ignored; `"Hello World!"` prints.
9 **(c)** ✓ **Correct!** `""" """` is used for multi-line comments.
10 **(c)** ✓ **Correct!** `func.__doc__` prints the function's docstring.

✔ **Score: 5/5** 🎯

Section 3: Operators

11 **(b)** ✓ **Correct!** `10 % 3 = 1` (remainder).
12 **(b)** ✓ **Correct!** `5 != 5` → `False`.
13 **(a)** ✓ **Correct!** `True and False or True` → `True`.
14 **(b)** ✓ **Correct!** `//` is **floor division**.
15 **(b)** ✓ **Correct!** `10 >> 2` (bitwise shift right) → `2`.

✔ **Score: 5/5** 🎯

Section 4: Type Conversion

16 **(b)** ✓ **Correct!** `int(5.9)` → `5` (integer).
17 **(b)** ✓ **Correct!** `"200"` → `int(200)`, so `200 + 100 = 300`.
18 **(b)** ✓ **Correct!** `bool(0)` is **False**.
19 **(c)** ✓ **Correct!** `tuple([1,2,3])` → `(1, 2, 3)`.
20 **(b)** ✓ **Correct!** `str(10) + str(20)` → `"1020"`.

✔ **Score: 5/5** 🎯

Section 5: Input in Python

21 **(b)** ✓ **Correct!** `int(input())` converts input to an integer.
22 **(b)** ✓ **Correct!** `int(3.14)` → **Error** (cannot convert float string directly).
23 **(b)** ✓ **Correct!** `"5 10"` is split into `5 10` as strings.
24 **(b)** ✗ **You skipped this!** Correct answer is **(b)** `[1, 2, 3, 4]`.
25 **(a)** ✓ **Correct!** `input().split()` stores words as a list.

✔ **Score: 4/5** 🎯 (missed one)