Python questions

1. What will `type(5)` return in Python?
   a) `float`
   b) `int`
   c) `str`
   d) `None`

2. Which of the following is NOT a valid variable name in Python?
   a) `_var`
   b) `2var`
   c) `var_2`
   d) `VarName`

3. What will be the output of `print("Python"[::-1])`?
   a) `Python`
   b) `nohtyP`
   c) `Pytho`
   d) `Error`

4. Which of the following data types is immutable in Python?
   a) List
   b) Dictionary
   c) Tuple
   d) Set

5. What will be the output of `bool([])`?
   a) `True`
   b) `False`
   c) `None`
   d) `Error`

6. What is the result of `10 / 3` in Python 3?
   a) `3`
   b) `3.3`
   c) `3.3333`
   d) `3.0`

7. Which of the following functions is used to take input from the user in Python?
    a) `input()`
    b) `raw_input()`
    c) `scan()`
    d) `read()`

8. What does `ord('A')` return?
    a) `65`
    b) `97`
    c) `A`
    d) `Error`

9. Which keyword is used to define a function in Python?
    a) `function`
    b) `def`
    c) `define`
    d) `lambda`

10. What is the output of `print(2 ** 3)`?
    a) `6`
    b) `8`
    c) `9`
    d) `None`

11. What will be the output of `5 // 2`?
    a) `2.5`
    b) `2`
    c) `3`
    d) `None`

12. Which of the following is NOT a comparison operator in Python?
    a) `!=`
    b) `==`
    c) `=`
    d) `>=`

13. What is the output of:

```
x = 10

print(x > 5 and x < 15)
```

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

14. What will not False return?
   a) True
   b) False
   c) None
   d) Error

15. Which loop is used when the number of iterations is unknown?
   a) for
   b) while
   c) do-while
   d) None

16. How many times will the following loop execute?

```
for i in range(3):

print(i)
```

   a) 0
   b) 2
   c) 3
   d) Infinite

17. What will be the output of print("Hello" * 3)?
   a) HelloHelloHello
   b) Hello Hello Hello
   c) Error
   d) None

18. How do you stop a loop in Python?
    a) `stop`
    b) `break`
    c) `exit`
    d) `continue`

19. What will `range(5)` return?
    a) `[0, 1, 2, 3, 4]`
    b) `(0, 1, 2, 3, 4)`
    c) `range(0, 5)`
    d) None

20. Which statement is used to skip the current iteration of a loop?
    a) `skip`
    b) `continue`
    c) `break`
    d) `pass`

21. What is the default return type of a function that does not explicitly return a value?
    a) None
    b) `0`
    c) `False`
    d) `Error`

22. What will `len("Python")` return?
    a) 5
    b) 6
    c) 7
    d) None

23. What does `lambda x: x + 2` return?
    a) A function
    b) An integer
    c) An error
    d) A string

24. What is the output of:

```python
def test():

pass

print(test())
```

   a) None
   b) Error
   c) Pass
   d) 0

25. Which method is called when an object is created in Python?
   a) `__new__()`
   b) `__init__()`
   c) `__self__()`
   d) `__start__()`

26. How do you handle exceptions in Python?
   a) `try-except`
   b) `try-catch`
   c) `catch-except`
   d) `throw`

27. What type of error is caused by dividing by zero?
   a) `SyntaxError`
   b) `ZeroDivisionError`
   c) `TypeError`
   d) `RuntimeError`

28. What does the `finally` block do in exception handling?
   a) Executes only if there is an exception
   b) Executes only if no exception occurs
   c) Executes always
   d) Does nothing

29. What will `open("file.txt", "r")` do if the file does not exist?
   a) Creates the file
   b) Raises an error

c) Returns an empty file
d) None

30. What method is used to read an entire file into a string?
   a) `read()`
   b) `readline()`
   c) `readlines()`
   d) `fetch()`

31. What will `list(range(5))` return?
   a) `[0, 1, 2, 3, 4]`
   b) `(0, 1, 2, 3, 4)`
   c) `{0, 1, 2, 3, 4}`
   d) None

32. Which of the following is a Python framework?
   a) Django
   b) Flask
   c) Both a and b
   d) None

33. What does `time.sleep(2)` do?
   a) Pauses execution for 2 milliseconds
   b) Pauses execution for 2 seconds
   c) Halts the program
   d) None

34. What is the output of `2 == 2.0`?
   a) `True`
   b) `False`
   c) `Error`
   d) `None`

35. What will `import this` display?
   a) The Zen of Python
   b) An error
   c) Nothing
   d) A poem

Answer Key

1. **b**
2. **b**
3. **b**
4. **c**
5. **b**
6. **c**
7. **a**
8. **a**
9. **b**
10. **b**
11. **b**
12. **c**
13. **a**
14. **a**
15. **b**
16. **c**
17. **a**
18. **b**
19. **c**
20. **b**
21. **a**

22. **b**

23. **a**

24. **a**

25. **b**

26. **a**

27. **b**

28. **c**

29. **b**

30. **a**

31. **a**

32. **c**

33. **b**

34. **a**

35. **a**