

Python Intermediate Quiz (25 Questions — Sections 1–4)

1. What will be the output of the following code?

```
x = [10, 20, 30]
```

```
y = x
```

```
y.append(40)
```

```
print(x)
```

a) [10, 20, 30] b) [10, 20, 30, 40] c) [40, 10, 20, 30] d) Error

2. What is the output of this expression?

```
print(2 ** 3 ** 2)
```

a) 64 b) 512 c) 8 d) 256

3. Which statement is true about lists and tuples?

a) Lists are mutable; tuples are immutable b) Both are immutable c) Both are mutable d) Lists are immutable; tuples are mutable

4. What is the output of:

```
a = 'Data Science'
```

```
print(a[-7:-1])
```

a) Scienc b) Science c) a Scien d) ta Scie

5. for i in range(1, 10, 3): print(i, end=',')

a) 1,4,7,10 b) 1,4,7 c) 1,3,6,9 d) 0,3,6,9

6. Which function is used to get both index and value when iterating a list?

a) enumerate() b) zip() c) map() d) items()

7. x = 'python'

```
print(x.capitalize())
```

a) python b) PYTHON c) Python d) pYTHON

8. def test(x, y=2, z=3): return x + y + z

```
print(test(5, z=10))
```

a) 17 b) 20 c) 10 d) Error

9. sum([i for i in range(2, 10, 2)]) returns:

a) 20 b) 24 c) 30 d) 28

10. Which of the following statements is correct for sets?

a) Sets can contain duplicate values b) Sets maintain insertion order c) Sets are mutable but elements must be immutable d) Sets are indexed

11. list1 = [1, 2, 3]

```
list2 = [4, 5, 6]
```

```
print(list(zip(list1, list2)))
```

a) [(1,4),(2,5),(3,6)] b) [(4,1),(5,2),(6,3)] c) [1,2,3,4,5,6] d) [(1,2,3),(4,5,6)]

12. x = ['a','b','c']

```
x.insert(1,'z')
```

```
print(x)
```

a) ['a','z','b','c'] b) ['z','a','b','c'] c) ['a','b','z','c'] d) Error

13. def add(x,y): print(x+y)

```
result = add(5,10)
```

print(result)
a) 15 b) None c) Error d) 5 10

14. a = [10,20,30,40]
print(a[::-1])
a) [40,30,20,10] b) [10,20,30,40] c) Error d) [30,20,10,40]

15. Which creates a dictionary correctly?
a) {1,2,3} b) {'name':'John','age':25} c) [1,2,3] d) (1,2,3)

16. d = {'x':10,'y':20}
print(d.get('z',50))
a) 10 b) 20 c) None d) 50

17. names = ['A','B','C']
for i,n in enumerate(names,start=1): print(i,n)
a) 0 A,1 B,2 C b) 1 A,2 B,3 C c) A 1,B 2,C 3 d) Error

18. Iterate through dictionary keys and values:
a) for key,value in dict.items(): b) for key,value in dict: c) for key,value in dict.keys(): d) for dict in key,value:

19. nums=[1,2,3,4]
print([x**2 for x in nums if x%2==0])
a) [1,9] b) [2,4] c) [4,16] d) [1,4,9,16]

20. file = open('data.txt','r')
content = file.read()
file.close()
print(type(content))
a) str b) list c) tuple d) bytes

21. Which statement about with open() is true?
a) Automatically closes file b) Deletes file after reading c) Prevents reading errors d) Only used in write mode

22. for i in range(3):
for j in range(2):
print(i,j)
a) Prints 3 pairs b) Prints 6 pairs c) Prints 2 pairs d) Error

23. x = [1,2,3]
y = [i*2 for i in x]
print(y)
a) [1,2,3] b) [2,4,6] c) [1,4,9] d) [3,6,9]

24. a = [1,2,3]
b = a.copy()
b.append(4)
print(a,b)
a) [1,2,3,4] [1,2,3,4] b) [1,2,3] [1,2,3,4] c) [1,2,3,4] [1,2,3] d) Error

25. x = {'a':1,'b':2,'c':3}
for key in x:
print(key,x[key])
a) Prints keys only b) Prints values only c) Prints key-value pairs d) Error