

❑ Easy Level (10 Questions)

Q1. Which data type is used to store key–value pairs in Python?

- A. List
 - B. Tuple
 - C. Dictionary
 - D. Set
-

Q2. Which symbol is used to define a dictionary in Python?

- A. []
 - B. {}
 - C. ()
 - D. <>
-

Q3. Which method is used to add a new key-value pair to a dictionary?

- A. add()
 - B. insert()
 - C. append()
 - D. Assignment using key
-

Q4. Which function prints all keys of a dictionary?

- A. dict.keys()
 - B. dict.values()
 - C. dict.items()
 - D. dict.all()
-

Q5. Which data type is ordered and mutable?

- A. Tuple
 - B. Set
 - C. Dictionary
 - D. List
-

Q6. How do you create an empty list?

- A. {}
 - B. ()
 - C. []
 - D. None
-

Q7. Which method adds an element at the end of a list?

- A. add()
 - B. append()
 - C. insert()
 - D. extend()
-

Q8. Which operator is used to check membership in a list?

- A. ==
 - B. is
 - C. in
 - D. has
-

Q9. Which loop is commonly used to iterate over a dictionary?

- A. while
 - B. for
 - C. do-while
 - D. repeat
-

Q10. Which method removes a specific element from a list by value?

- A. pop()
 - B. remove()
 - C. del()
 - D. clear()
-

Medium Level (15 Questions)

Q11. What will be the output?

```
d = {"a":1, "b":2}  
print(d["a"])
```

- A. a
 - B. 1
 - C. KeyError
 - D. None
-

Q12. Which statement correctly defines a dictionary?

- A. d = (1:10, 2:20)
 - B. d = [1=10, 2=20]
 - C. d = {1:10, 2:20}
 - D. d = <1,10>
-

Q13. Which method deletes a key-value pair from a dictionary?

- A. remove()
 - B. delete()
 - C. pop()
 - D. discard()
-

Q14. Which statement adds a key 'age' with value 25 to dictionary d?

- A. d.add("age",25)
 - B. d["age"] = 25
 - C. insert(d,"age",25)
 - D. d.append(25)
-

Q15. What will be the output?

```
lst = [1, 2, 3]  
lst.insert(1, 10)  
print(lst)
```

- A. [1, 2, 10, 3]
 - B. [1, 10, 2, 3]
 - C. [10, 1, 2, 3]
 - D. Error
-

Q16. Which list operation concatenates two lists?

- A. *
 - B. +
 - C. &
 - D. %
-

Q17. Which function returns the number of elements in a list?

- A. size()
 - B. count()
 - C. length()
 - D. len()
-

Q18. What will be the output?

```
lst = [10, 20, 30]
print(20 in lst)
```

- A. True
 - B. False
 - C. Error
 - D. None
-

Q19. Which loop is best suited to traverse dictionary keys?

- A. for
 - B. while
 - C. nested while
 - D. infinite
-

Q20. What does `dict.items()` return?

- A. List of keys
 - B. List of values
 - C. Key-value pairs
 - D. Sorted dictionary
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Q21. What will `del d["x"]` do?

- A. Clear dictionary
 - B. Delete key x
 - C. Delete value x
 - D. Raise error always
-

Q22. Which method removes and returns the last element of a list?

- A. `remove()`
 - B. `del()`
 - C. `pop()`
 - D. `clear()`
-

Q23. What is the output?

```
lst = [1,2,3]
lst *= 2
print(lst)
```

- A. `[1,2,3,1,2,3]`
 - B. `[2,4,6]`
 - C. Error
 - D. `[1,2,3]`
-

Q24. Which dictionary method removes all elements?

- A. `delete()`
- B. `remove()`
- C. `clear()`
- D. `pop()`

Q25. Which operation searches for an element in a list?

- A. Indexing
 - B. Membership test
 - C. Slicing
 - D. Mapping
-



Hard Level (15 Questions)

Q26. What will be the output?

```
d = {1:"A", 2:"B"}  
for k,v in d.items():  
    print(k, v)
```

- A. Only keys
 - B. Only values
 - C. Key-value pairs
 - D. Error
-

Q27. Which of the following raises a KeyError?

- A. d.get("x")
 - B. d["x"]
 - C. d.keys()
 - D. d.items()
-

Q28. What will be the output?

```
lst = [1, 2, 3, 4]  
del lst[1:3]  
print(lst)
```

- A. [1, 4]
- B. [2, 3]
- C. [1, 3, 4]
- D. Error

Q29. Which property differentiates dictionaries from lists?

- A. Mutability
 - B. Indexing
 - C. Key-value mapping
 - D. Iterability
-

Q30. Which method safely deletes a dictionary key without error?

- A. `del`
 - B. `pop()`
 - C. `remove()`
 - D. `discard()`
-

Q31. What will be the output?

```
d = {"x":1}  
print(d.get("y", 5))
```

- A. None
 - B. `KeyError`
 - C. 0
 - D. 5
-

Q32. Which list operator repeats elements?

- A. `+`
 - B. `*`
 - C. `-`
 - D. `/`
-

Q33. What is the output?

```
lst = [1,2,3]  
print(lst.index(2))
```

- A. 1
- B. 2
- C. 0
- D. Error

Q34. Which of the following allows dictionary modification during iteration?

- A. Direct modification
 - B. Iterating over copy
 - C. Using while loop
 - D. Nested loop
-

Q35. What will be the output?

```
d = {"a":1}  
d["a"] = d["a"] + 5  
print(d)
```

- A. {"a":1}
 - B. {"a":6}
 - C. Error
 - D. None
-

Q36. Which approach deletes multiple list elements efficiently?

- A. pop()
 - B. slicing with del
 - C. remove()
 - D. append()
-

Q37. Which loop is most Pythonic for list traversal?

- A. while with index
 - B. do-while
 - C. for element in list
 - D. infinite loop
-

Q38. What is the output?

```
lst = []
if lst:
    print("Yes")
else:
    print("No")
```

- A. Yes
 - B. No
 - C. Error
 - D. None
-

Q39. Which statement about dictionary keys is TRUE?

- A. Keys must be mutable
 - B. Keys must be unique
 - C. Keys can be lists
 - D. Keys can be duplicated
-

Q40. Which operation deletes a dictionary item during runtime using loop safely?

- A. del inside loop
- B. pop() without check
- C. iterate over list(d.keys())
- D. direct iteration