

## Dictionary Data Type Mcqs

1) Which of the following statements create a dictionary?

- a) `d = {}`
- b) `d = {"john":40, "peter":45}`
- c) `d = {40:"john", 45:"peter"}`
- d) All of the mentioned

2) What will be the output of the following Python code snippet?

```
d = {"john":40, "peter":45}
"john" in d
```

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

3) What will be the output of the following Python code snippet?

```
d1 = {"john":40, "peter":45}
d2 = {"john":466, "peter":45}
print(d1 == d2)
```

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

4) What will be the output of the following Python code snippet?

**(\*,+,-,<,<=,>=)**

```
d1 = {"john":40, "peter":45}
d2 = {"john":466, "peter":45}
print(d1 > d2)
```

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

5) What will be the output of the following Python code snippet?

```
d = {"john":40, "peter":45}
print(d["john"])
```

- a) 40
- b) 45
- c) "john"
- d) "peter"

6) Suppose `d = {"john":40, "peter":45}`, to delete the entry for "john" what command do we use?

- a) `d.delete("john":40)`
- b) `d.delete("john")`
- c) `del d["john"]`
- d) `del d("john":40)`

7) Suppose `d = {"john":40, "peter":45}`. To obtain the number of entries in dictionary which command do we use?

- a) `d.size()`
- b) `len(d)`
- c) `size(d)`
- d) `d.len()`

8)What will be the output of the following Python code snippet?

```
d = {"john":40, "peter":45}
print(list(d.keys()))
```

- a) `["john", "peter"]`
- b) `["john":40, "peter":45]`
- c) `("john", "peter")`
- d) `("john":40, "peter":45)`

9) Suppose `d = {"john":40, "peter":45}`, what happens when we try to retrieve a value using the expression `d["susan"]`?

- a) Since "susan" is not a value in the set, Python raises a `KeyError` exception
- b) It is executed fine and no exception is raised, and it returns `None`
- c) Since "susan" is not a key in the set, Python raises a `KeyError` exception
- d) Since "susan" is not a key in the set, Python raises a syntax error

10)Which of these about a dictionary is false?

- a) The values of a dictionary can be accessed using keys
- b) The keys of a dictionary can be accessed using values
- c) Dictionaries aren't ordered
- d) Dictionaries are mutable

11)Which of the following is not a declaration of the dictionary?

- a) `{1: 'A', 2: 'B'}`
- b) `dict([[1,"A"],[2,"B"]])`
- c) `{1,"A",2"B"}`
- d) `{ }`

12)What will be the output of the following Python code snippet?

```
a={1:"A",2:"B",3:"C"}
for i,j in a.items():
    print(i,j,end=" ")
```

- a) `1 A 2 B 3 C`
- b) `1 2 3`
- c) `A B C`
- d) `1:"A" 2:"B" 3:"C"`

13)What will be the output of the following Python code snippet?

```
a={1:"A",2:"B",3:"C"}
print(a.get(1,4))
```

- a) `1`
- b) `A`
- c) `4`
- d) Invalid syntax for get method

14)What will be the output of the following Python code snippet?

```
a={1:"A",2:"B",3:"C"}  
print(a.get(5,4))
```

- a) Error, invalid syntax
- b) A
- c) 5
- d) 4

15)What will be the output of the following Python code snippet?

```
a={1:"A",2:"B",3:"C"}  
print(a.setdefault(3))
```

- a) {1: 'A', 2: 'B', 3: 'C'}
- b) C
- c) {1: 3, 2: 3, 3: 3}
- d) No method called setdefault() exists for dictionary

16)What will be the output of the following Python code snippet?

```
a={1:"A",2:"B",3:"C"}  
a.setdefault(4,"D")  
print(a)
```

- a) {1: 'A', 2: 'B', 3: 'C', 4: 'D'}
- b) None
- c) Error
- d) [1,3,6,10]

17)What will be the output of the following Python code?

```
a={1:"A",2:"B",3:"C"}  
b={4:"D",5:"E"}  
a.update(b)  
print(a)
```

- a) {1: 'A', 2: 'B', 3: 'C'}
- b) Method update() doesn't exist for dictionaries
- c) {1: 'A', 2: 'B', 3: 'C', 4: 'D', 5: 'E'}
- d) {4: 'D', 5: 'E'}

18)What will be the output of the following Python code?

```
a={1:"A",2:"B",3:"C"}  
b=a.copy()  
b[2]="D"  
print(a)
```

- a) Error, copy() method doesn't exist for dictionaries
- b) {1: 'A', 2: 'B', 3: 'C'}
- c) {1: 'A', 2: 'D', 3: 'C'}
- d) "None" is printed

19)What will be the output of the following Python code?

```
a={1:"A",2:"B",3:"C"}
```

```
a.clear()
```

```
print(a)
```

- a) None
- b) { None:None, None:None, None:None}
- c) { 1:None, 2:None, 3:None}
- d) { }

20)Which of the following isn't true about dictionary keys?

- a) More than one key isn't allowed
- b) Keys must be immutable
- c) Keys must be integers
- d) When duplicate keys encountered, the last assignment wins

21)What will be the output of the following Python code?

```
a={1:5,2:3,3:4}
```

```
a.pop(3)
```

```
print(a)
```

- a) {1: 5}
- b) {1: 5, 2: 3}
- c) Error, syntax error for pop() method
- d) {1: 5, 3: 4}

22)What will be the output of the following Python code?

```
a={1:5,2:3,3:4}
```

```
print(a.pop(4,9))
```

- a) 9
- b) 3
- c) Too many arguments for pop() method
- d) 4

23)What will be the output of the following Python code?

```
a={1:"A",2:"B",3:"C"}
```

```
for i in a:
```

```
    print(i,end=" ")
```

- a) 1 2 3
- b) 'A' 'B' 'C'
- c) 1 'A' 2 'B' 3 'C'
- d) Error, it should be: for i in a.items():

24)What will be the output of the following Python code?

```
>>> a={1:"A",2:"B",3:"C"}
```

```
>>> a.items()
```

- a) Syntax error
- b) dict\_items([('A'), ('B'), ('C')])
- c) dict\_items([(1,2,3)])
- d) dict\_items([(1, 'A'), (2, 'B'), (3, 'C')])

25) Which of the statements about dictionary values is false?

- a) More than one key can have the same value
- b) The values of the dictionary can be accessed as dict[key]
- c) Values of a dictionary must be unique
- d) Values of a dictionary can be a mixture of letters and numbers

26) What will be the output of the following Python code snippet?

```
>>> a={1:"A",2:"B",3:"C"}
>>> del a
```

- a) method del doesn't exist for the dictionary
- b) del deletes the values in the dictionary
- c) del deletes the entire dictionary
- d) del deletes the keys in the dictionary

27) If a is a dictionary with some key-value pairs, what does a.popitem() do?

- a) Removes an arbitrary element
- b) Removes all the key-value pairs
- c) Removes the key-value pair for the key given as an argument
- d) Invalid method for dictionary

28) What will be the output of the following Python code snippet?

```
a = {}
a[1] = 1
a['1'] = 2
a[1]=a[1]+1
count = 0
for i in a:
    count += a[i]
print(count)
```

- a) 1
- b) 2
- c) 4
- d) Error, the keys can't be a mixture of letters and numbers

29) What will be the output of the following Python code snippet?

```
numbers = {}
letters = {}
comb = {}
numbers[1] = 56
numbers[3] = 7
letters[4] = 'B'
comb['Numbers'] = numbers
comb['Letters'] = letters
print(comb)
```

- a) Error, dictionary in a dictionary can't exist
- b) 'Numbers': {1: 56, 3: 7}
- c) {'Numbers': {1: 56}, 'Letters': {4: 'B'}}
- d) {'Numbers': {1: 56, 3: 7}, 'Letters': {4: 'B'}}

30)What will be the output of the following Python code snippet?

```
test = {1:'A', 2:'B', 3:'C'}  
test = {}  
print(len(test))
```

- a) 0
- b) None
- c) 3
- d) An exception is thrown

31)What will be the output of the following Python code snippet?

```
a = {}  
a[1] = 1  
a['1'] = 2  
a[1.0]=4  
count = 0  
for i in a:  
    count += a[i]  
print(count)
```

- a) An exception is thrown
- b) 3
- c) 6
- d) 2

32) What will be the output of the following Python code?

```
a={}  
a[2]=1  
a[1]=[2,3,4]  
print(a[1][1])
```

- a) [2,3,4]
- b) 3
- c) 2
- d) An exception is thrown

33)What will be the output of the following Python code?

```
>>> a={'B':5,'A':9,'C':7}  
>>> sorted(a)
```

- a) ['A','B','C']
- b) ['B','C','A']
- c) [5,7,9]
- d) [9,5,7]

34)What will be the output of the following Python code?

```
>>> a={i: i*i for i in range(6)}  
>>> a
```

- a) Dictionary comprehension doesn't exist
- b) {0: 0, 1: 1, 2: 4, 3: 9, 4: 16, 5: 25, 6:36}
- c) {0: 0, 1: 1, 4: 4, 9: 9, 16: 16, 25: 25}
- d) {0: 0, 1: 1, 2: 4, 3: 9, 4: 16, 5: 25}