

Dictionary MCQS

1. What is a dictionary in Python?

- A. A mutable, unordered collection of items.
- B. A mutable, ordered collection of items.
- C. An immutable, unordered collection of items.
- D. An immutable, ordered collection of items.

2. What will be the output of the following code, which processes an inventory system?

```
inventory = {'laptop': 50, 'mouse': 200, 'keyboard': 150}  
print(inventory['laptop'])
```

- A. laptop
- B. 50
- C. 200
- D. KeyError

3. How can a dictionary be used to store API request headers in a web development project?

```
headers = {  
    'Content-Type': 'application/json',  
    'Authorization': 'Bearer abc123'  
}
```

- A. As a tuple
- B. As an array
- C. As key-value pairs
- D. As a JSON object

4. Which of the following dictionary methods returns all the keys in the dictionary?

- A. items()
- B. keys()
- C. values()
- D. pop()

5. What will be the output of the following code, which accesses a product catalog?

```
catalog = {"ProductA": 100, "ProductB": 200}
print(catalog.get("ProductC", "Not Found"))
```

- A. ProductC
- B. None
- C. 100
- D. Not Found

6. What is the result of this code snippet used in data processing?

```
data = {'name': 'Alice', 'role': 'Manager'}
data['department'] = 'HR'
print(data)
```

- A. {'name': 'Alice', 'role': 'Manager'}
- B. {'name': 'Alice', 'role': 'Manager', 'department': 'HR'}
- C. KeyError
- D. 'HR'

7. How are dictionary elements accessed in Python?

- A. Using an index like lists.
- B. Using a key.
- C. Using both index and key.
- D. Using the get() method only.

8. Which of the following is the correct way to declare a dictionary?

- A. my_dict = {}
- B. my_dict = []
- C. my_dict = ()
- D. my_dict = set()

9. What is the purpose of the get() method in a dictionary?

- A. To add a new key-value pair.
- B. To update an existing key-value pair.
- C. To retrieve the value for a given key, returning None if the key does not exist.
- D. To remove a key-value pair from the dictionary.

10. What is the result of the following code?

```
employee_data = {"name": "Alice", "dept": "IT"}  
employee_data["salary"] = 70000  
print(employee_data)
```

- A. {"name": "Alice", "dept": "IT"}
- B. {"name": "Alice", "dept": "IT", "salary": 70000}
- C. {"salary": 70000}
- D. KeyError

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

```
config = {"debug": True, "version": "1.0"}  
print(config.get("theme", "dark"))
```

- A. theme
- B. dark
- C. None
- D. KeyError

12. Which method is used to remove a key-value pair from a dictionary?

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

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

```
python  
Copy code  
project_info = {"name": "Redesign", "status": "In Progress"}  
print(list(project_info.keys()))
```

- A. ['name', 'status']
- B. ['1', '2']
- C. ['Redesign']
- D. KeyError