

You will be emailed a Google Forms Virtual Scantron to use to submit your answers.

1. What is printed by the following statements?

A dictionary is an ordered collection of key-value pairs.

A. False

B. True

2. What is printed by the following statements?

```
mydict = {"cat":12, "dog":6, "elephant":23}  
print(mydict["dog"])
```

A. 12

B. 6

C. 23

D. Error, you cannot use the index operator with a dictionary.

3. What is printed by the following statements?

```
mydict = {"cat":12, "dog":6, "elephant":23}  
mydict["mouse"] = mydict["cat"] + mydict["dog"]  
print(mydict["mouse"])
```

A. 12

B. 0

C. 18

D. Error, there is no entry with mouse as the key.

4. What is printed by the following statements?

```
mydict = {"cat":12, "dog":6, "elephant":23, "bear":20}
keylist = list(mydict.keys())
keylist.sort()
print(keylist[3])
```

- A. cat
- B. dog
- C. elephant
- D. bear

5. What is printed by the following statements?

```
mydict = {"cat":12, "dog":6, "elephant":23, "bear":20}

answer = mydict.get("cat") // mydict.get("dog")

print(answer)
```

- A. 2
- B. 0.5
- C. bear
- D. Error, divide is not a valid operation on dictionaries.

6. What is printed by the following statements?

```
mydict = {"cat":12, "dog":6, "elephant":23, "bear":20}

print("dog" in mydict)
```

- A. True
- B. False

7. What is printed by the following statements?

```
mydict = {"cat":12, "dog":6, "elephant":23, "bear":20}

print(23 in mydict)
```

- A. True
- B. False

8. What is printed by the following statements?

```
mydict = {"cat":12, "dog":6, "elephant":23, "bear":20}

yourdict = mydict

yourdict["elephant"] = 999

print(mydict["elephant"])
```

- A. 23
 - B. None
 - C. 999
 - D. Error, there are two different keys named elephant.
- Check MeCompare me

9. Select the correct ways to get the value of marks key.

```
student = {
    "name": "Emma",
    "class": 9,
    "marks": 75
}
```

- a. m = student.get(2)
- b. m = student.get('marks')
- c. m = student([2])
- d. m = student(['marks'])
- e. All of the above

10. What is the output of the following code?

```
dict1 = {"key1":1, "key2":2}
dict2 = {"key2":2, "key1":1}
print(dict1 == dict2)
```

- a. True
- b. False

11. What is the output of the following code?

```
sampleDict = dict([
('first', 1),
('second', 2),
('third', 3)
])
print(sampleDict)
```

- a. [('first', 100), ('second', 200), ('third', 300)]
- b. Options: SyntaxError: invalid syntax
- c. {'first': 1, 'second': 2, 'third': 3}

12. In Python, Dictionaries are immutable.

- a. False
- b. True

13. Select the correct way to remove the key marks from a dictionary.

```
student = {
    "name": "Emma",
    "class": 9,
    "marks": 75
}
```

- a. student.pop("marks")
- b. del student["marks"]
- c. student.remove("marks")
- d. student.popitem("marks")
- e. a and b are both correct ways to **remove** the key **marks** from a dictionary.

14. Dictionary keys must be immutable.

- a. True
- b. False

15. Select correct ways to create an empty dictionary.

- a. `sampleDict = {}`
- b. `sampleDict = dict()`
- c. `sampleDict = dict{}`
- d. All of the above
- e. a and b are both correct ways to create an empty dictionary.

16. What is the output of the following dictionary operation?

```
dict1 = {"name": "Mike", "salary": 8000}
temp = dict1.pop("age")
print(temp)
```

- a. `KeyError: 'age'`
- b. `TypeError`
- c. `None`

17. Select the correct way to print Emma's age.

```
student = {1: {'name': 'Emma', 'age': '27', 'sex': 'Female'},
           2: {'name': 'Mike', 'age': '22', 'sex': 'Male'}}
```

- a. `print(student[0][1])`
- b. `print(student[1]["age"])`
- c. `print(student[0]["age"])`

18. Which of the following are correct ways to copy a dictionary in Python.

- a. `dict2 = dict1.copy()`
- b. `dict2 = dict(dict1)`
- c. `dict2 = dict1`
- d. a and b are both correct ways to copy a dictionary in Python.
- e. a and c are both correct ways to copy a dictionary in Python.

19. Please select all correct ways to empty the given dictionary.

```
student = {  
    "name": "Emma",  
    "class": 9,  
    "marks": 75  
}
```

- a. `del student`
- b. `del student[0:2]`
- c. `student.clear()`
- d. None of the above are correct ways to empty the given dictionary

20. What is the output of the following dictionary operation?

```
dict1 = {"name": "Mike", "salary": 8000}  
temp = dict1.get("age")  
print(temp)
```

- a. `KeyError: 'age'`
- b. `TypeError`
- c. `None`

21. Select the correct way to access the value of a history subject.

```
sampleDict = {  
    "class": {  
        "student": {  
            "name": "Mike",  
            "marks": {  
                "physics": 70,  
                "history": 80  
            }  
        }  
    }  
}
```

- a. `sampleDict['class']['student']['marks']['history']`
- b. `sampleDict['class']['student']['marks'][1]`
- c. `sampleDict['class'][0]['marks']['history']`
- d. a and b are both correct ways to access the value of a history subject.
- e. a and c are both correct ways to access the value of a history subject.

22. Items are accessed by their position in a dictionary and all the keys in dictionaries must be of the same type.

- a. True
- b. False

23. Which one of the following is correct?

- a. In python, a dictionary can have two same keys with different values.
- b. In python, a dictionary can have two same values with different keys
- c. In python, a dictionary can have two same keys or same values but cannot have two same key-value pair
- d. In python, a dictionary can neither have two same keys nor two same values.

24. Which of the following will delete the key_value pair for key="tiger" in the dictionary?

```
dic={"lion":"wild","tiger":"wild","cat":"domestic","dog":"domestic"}
```

- a. `del dic["tiger"]`
- b. `dic["tiger"].delete()`
- c. `delete(dic["tiger"])`
- d. `del(dic["tiger"])`

25. Which of the following will give an error?

```
Suppose dict1={"a":1,"b":2,"c":3}
```

- a. `print(len(dict1))`
- b. `print(dict1.get("b"))`
- c. `dict1["a"]=5`
- d. None of these.