

Python for Computer Science and Data Science 1 (CSE-3651)

Quiz-3

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

```
d={"A":10, "B":20, "C":30}  
print(d.get(20, 'IVK'))
```

- A) Invalid syntax for get method
- B) IVK
- C) 'IVK'
- D) 20

2: What will be the output of the following Python code?

```
d={}  
for i in range(5):  
    d[i]=i*i  
print(max(d))
```

- A) 14
- B) 4
- C) 16
- D) error

3. What could be the output of the below code?

```
months = {'January': 1, 'February': 2, 'March': 3}
```

```
for key in months.keys():  
    print(key, end=' ')
```

- A) January February March
- B) 1 2 3
- C) 'January' 'February' 'March'
- D) Error: .keys() is not a valid method for dictionaries

4. Which of the following is not a valid set in Python?

- A) {1, 2, (3,4), 'abc'}
- B) set([1, 2, 3, 4])
- C) {1, 2, [3, 4], 'abc'}
- D) {1, 2, frozenset({3,4}), 'abc'}

5. What will be the output of the following Python code?

```
s1 = {1, 3, 5}  
s2 = {2, 3, 4}
```

```
print(s1 ^ s2)
```

- A) {1, 2, 3, 4, 5}
- B) {1, 2, 4, 5}
- C) {3}
- D) {1, 5}

6. What will be the output of the following Python code.

```
X=set('abc def ghi jkl mno').issuperset('hi mom')
print(X)
```

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

7. What will be the output of the following Python code?

```
import numpy as np
arr = np.zeros((2, 3))
print(arr)
```

- A) [[0 0 0], [0 0 0]]
- B) [[0.0 0.0 0.0], [0.0 0.0 0.0]]
- C) [[0. 0. 0.], [0. 0. 0.]]
- D) [[0 0], [0 0]]

8. What will be the output of the following Python code?

```
import numpy as np
arr = np.array([10, 20, 30, [40, 50]], dtype=object)
view = arr.view()
view[3][1] = 80
print(arr, end=' ')
deep_copy = arr.copy()
deep_copy[3][0] = 60
print(arr, end=' ')
```

- A) [10, 20, 30, [40, 80]] [10, 20, 30, [60, 80]]
- B) [10, 20, 30, [40, 80]] [10, 20, 30, [40, 80]]
- C) [10, 20, 30, [40, 80]] [10, 20, 30, [60, 50]]
- D) [10, 20, 30, [80, 50]] [10, 20, 30, [40, 80]]

9. What will be the output of the following Python code?

```
import numpy as np
arr = np.arange(1, 10)
arr = arr[arr > 5]
arr[arr % 2 == 0] = -1
print(arr)
```

- A) [6, 7, 8, 9]
- B) [-1, 7, -1, 9]
- C) [1, 2, 3, 4, 5, -1, 7, -1, 9]
- D) [6, -1, 8, 9]

10. What will be the output of the following Python code?

```
import numpy as np
arr = np.arange(1, 13).reshape(3, 4)
transposed = arr.T
print(transposed.shape)
```

- A) (3, 4)
- B) (4, 3)
- C) (12,)
- D) Error: Cannot transpose a non-square matrix