

## MCQ

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

```
def func(a, b):
```

```
    return b if a == 0 else func(b % a, a)
```

```
print(func(30, 75))
```

~~a) 10~~

~~b) 20~~

c) 15

~~d) 0~~

2.

```
numbers = (4, 7, 19, 2, 89, 45, 72, 22)
```

```
sorted_numbers = sorted(numbers)
```

```
even = lambda a: a % 2 == 0
```

```
even_numbers = filter(even,  
sorted_numbers)
```

```
print(type(even_numbers))
```

~~a) Int~~

b) Filter

~~c) List~~

~~d) Tuple~~

3) As what datatype are the \*args stored, when passed into

a) Tuple

~~b) List~~

~~c) Dictionary~~

~~d) none~~

4)

```
set1 = {14, 3, 55}
```

```
set2 = {82, 49, 62}
```

```
set3={99,22,17}
```

```
print(len(set1 + set2 + set3))
```

~~a) 105~~

~~b) 270~~

~~c) 0~~

d) Error

5) What keyword is used in Python to raise exceptions?

a) raise

~~b) try~~

~~c) goto~~

~~d) except~~

6) Which of the following modules need to be imported to handle date time computations in Python?

~~a) time~~

~~b) date~~

c) datetime

~~d) time~~

7) What will be the output of the following code snippet?

```
print(4**3 + (7 + 5)**(1 + 1))
```

~~a) 248~~

~~b) 169~~

c) 208

~~d) 233~~

8) Which of the following functions converts date to corresponding time in Python?

~~a) strptime~~

b) strftime

~~c) both a) and b)~~

~~d) None~~

9) The python tuple is \_\_\_\_\_ in nature.

- a) ~~mutable~~
- b) immutable
- c) ~~unchangeable~~
- d) ~~none~~

10)

The \_\_\_\_ is a built-in function that returns a range object that consists series of integer numbers, which we can iterate using a for loop.

- A. range()
- B. ~~set()~~
- C. ~~dictionary{}~~
- D. ~~None of the mentioned above~~

#### Question 11

Amongst which of the following is a function which does not have any name?

- A. ~~Del function~~
- B. ~~Show function~~
- C. Lambda function
- D. ~~None of the mentioned above~~

Question 12

The module Pickle is used to \_\_\_\_.

- A. ~~Serializing Python object structure~~
- B. ~~De-serializing Python object structure~~
- C. Both A and B
- D. ~~None of the mentioned above~~

Question 13

Amongst which of the following is / are the method of convert Python objects for writing data in a binary file?

- A. ~~set() method~~
- B. dump() method
- C. ~~load() method~~
- D. ~~None of the mentioned above~~

14 Amongst which of the following is / are the method used to unpickling data from a binary file?

- A. load()
- B. ~~set() method~~
- C. ~~dump() method~~
- D. ~~None of the mentioned above~~

15.

A text file contains only textual information consisting of \_\_\_\_.

- A. ~~Alphabets~~
- B. ~~Numbers~~
- C. ~~Special symbols~~
- D. All of the mentioned above

16

Which Python code could replace the ellipsis (...) below to get the following output? (Select all that apply.)

```
captains = {  
    "Enterprise": "Picard",  
    "Voyager": "Janeway",  
    "Defiant": "Sisko",  
}
```

```
Enterprise Picard,  
Voyager Janeway  
Defiant Sisko
```

a) ~~for ship, captain in captains.items():~~

```
print(ship, captain)
```

b) ~~for ship in captains:~~

```
print(ship, captains[ship])
```

e) ~~for ship in captains: print(ship, captains)~~

d) both a and b

17)

Which of the following lines of code will create an empty dictionary named captains?

a) ~~captains = {dict}~~

b) ~~type(captains)~~

e) ~~captains.dict()~~

d) captains = { }

**18)** Now you have your empty dictionary named captains. It's time to add some data!

Specifically, you want to add the key-value pairs "Enterprise": "Picard", "Voyager": "Janeway", and "Defiant": "Sisko".

Which of the following code snippets will successfully add these key-value pairs to the existing captains dictionary?

a) `captains{"Enterprise"="Picard"}  
captains{"Voyager"="Janeway"}  
captains{"Defiant"="Sisko"}`

b) `captains["Enterprise"]="Picard"  
captains["Voyager"]="Janeway"  
captains["Defiant"]="Sisko"`

c) `captains = {  
"Enterprise": "Picard",  
"Voyager": "Janeway",  
"Defiant": "Sisko",  
}`

d) ~~None of the above~~

**19 )** You're really building out the Federation Starfleet now! Here's what you have:

```
captains = {  
"Enterprise": "Picard",  
"Voyager": "Janeway",  
"Defiant": "Sisko",  
"Discovery": "unknown",  
}
```

Now, say you want to display the ship and captain names contained in the dictionary, but you also want to provide some additional context.

How could you do it?

a) ~~for item in captains.items():  
print(f"The {ship} is captained by {captain}.")~~

b) `for ship, captain in captains.items():  
print(f"The {ship} is captained by {captain}.")`

c) ~~for captain, ship in captains.items():  
print(f"The {ship} is captained by {captain}.")~~

d) ~~All are correct~~

**20 )**

You've created a dictionary, added data, checked for the existence of keys, and iterated over it with a for loop. Now you're ready to delete a key from this dictionary:

```
captains = {  
"Enterprise": "Picard",  
"Voyager": "Janeway",  
"Defiant": "Sisko",  
"Discovery": "unknown",  
}
```

What statement will remove the entry for the key "Discovery"?

a) ~~del captains~~

b) ~~captains.remove()~~

c) ~~del captains["Discovery"]~~

d) `captains["Discovery"].pop()`