

## 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

**ANS :- c)15**

```
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

**ANS :- b) Filter**

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

- a) Tuple
- b) List
- c) Dictionary
- d) none

**ANS :- a) Tuple**

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

**ANS :-** d) Error

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

- a) raise
- b) try
- c) goto
- d) except

**ANS :-** a) Raise

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

- a) timedata
- b) date
- c) datetime
- d) time

**ANS :-** c) datetime

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

**ANS :-** c) 208

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

strptime

- b) strftime
- c) both a) and b)
- d) None

**ANS :-** b) strftime

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

- a) Mutable
- b) Immutable
- c) Unchangeable
- d) None

**ANS: -** b) Immutable

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

**ANS: -** a) range()

### 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

ANS : - c) Lambda function

### 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

ANS : - c) Both A and B

### 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

ANS :- b) dump() method

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

ANS :- a) load()

15.

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

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

ANS : - 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])

c) for ship in captains:

print(ship, captains)

d) both a and b

ANS : - 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)`
- c) `captains.dict()`
- d) `captains = { }`

ANS : - 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

ANS : - b) and c)

**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

ANS : - b) `for ship, captain in captains.items():`

```
    print(f"The {ship} is captained by {captain}.")
```

**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()`

ASN : - c) `del captains["Discovery"]`