

## 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

Answer : 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

Answer : b) Filter

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

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

Answer : 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

Answer : d) Error

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

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

Answer : a) Filter

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

Answer : 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

Answer : 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

Answer : b) strftime

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

a) mutable

b) immutable

c) unchangeable

d) none

Answer : 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

Answer : 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

Answer : 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

Answer : c) Both A & 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

Answer : c) load() Method

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**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

Answer : c) dump() Method

15.

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

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

Answer : D) All of the mentioned above

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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

Answer : D) both a & 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 = {}

Answer : 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

Answer : b)

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

Answer : d)

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()

Answer : c)