

## 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 1: 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 2 : B) Filter**

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

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

**Answer 3 : 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 4 : D) Error**

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

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

**Answer 5 : 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

**Answer 6 : 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 7 : 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 8 : B) strftime**

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

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

**Answer 9 : B ) immutable**

Question 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 10 : 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 11 : 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 12 : 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

**Answer 13 : 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

**Answer 14 : 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

**Answer 15 : 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 16: 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 = {}`

**Answer 17 : 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 18 :** B) captains["Enterprise"] = "Picard"  
captains["Voyager"] = "Janeway"  
captains["Defiant"] = "Sisko"

**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) 8All are correct

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**Answer 19 :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()

**Answer 20 : C) del captains["discovery"]**





