

MCQ

Question 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 (answer)
- d) 0

Question 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 (answer)
- c) List
- d) Tuple

Question 3

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

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

Question 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)

Question 5

What keyword is used in Python to raise exceptions?

a) Raise (answer)

b) try

c) goto

d) except

Question 6

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

a) timedata

b) date

c) datetime (answer)

d) time

Question 7

What will be the output of the following code snippet?

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

```
1))a) 248
```

```
b) 169
```

```
c) 208 (answer)
```

```
d) 233
```

Question 8

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

a) Strptime (answer)

b) strftime

c) both a) and b)

d) None

Question 9

The python tuple is _____ in nature.

a) Mutable

b) Immutable (answer)

c) Unchangeable

d) none

Question 10

The `range` 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() (**answer**)
- 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 (**answer**)
- 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 (**answer**)
- 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 (**answer**)

Question 14

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

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

Question 15

A text file contains only textual information consisting of_____.

- A. Alphabets
- B. Numbers
- C. Special symbols
- D. All of the mentioned above (**answer**)

Question 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 (answer)

Question 17

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

- e) `captains = {dict}`
- f) `type(captains)`
- g) `captains.dict()`
- h) `captains = { }` (answer)

Question 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",
}` (answer)
- d) None of the above

Question 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}.") (answer)
```

d) All are correct

Question 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"] (answer)
- ```
captains["Discovery"]
```