MCQ

```
Q1.
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
```

Solution:

d) 0

```
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                                                   v
In [11]: #Ques1 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))
```

Correct Answer is 15

Q 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

Solution:

```
In [12]:
         #Ques2
         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))
         <class 'filter'>
```

Correct Answer is Filter

Q3

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

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

Solution:

Tuple: The *args are stored as a tuple.

Correct Answer is Tuple

```
Q 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
Solution
```

Correct Answer is Error

Q 5

What keyword is used in Python to raise exceptions?

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

Correct Answer is Raise

Q6

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

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

Correct Answer is datetime

Q 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

Solution

```
In [14]: #Ques7 What will be the output of the following code snippet?
print(4**3+(7+5)**(1+1))
```

208

Correct Answer is 208

Q 8 Which of the following functions converts date to corresponding time in Python? a) strptime b) strftime c) both a) and b) d) None
Correct Answer is strptime
Q 9 The python tuple is in nature. a) mutable b)immutable c)unchangeable d) none
Correct Answer is immutable
Q 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
Correct answer is range()
Q 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
Correct answer is Lambda Function
Q 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
Correct answer is Both A and B
Q 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
Correct answer is dump() method
Q 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
Correct answer is load ()

O 15

- A text file contains only textual information consisting of ____.
- A. Alphabets
- B. Numbers
- C. Special symbols
- D. All of the mentioned above

Correct answer is All of the mentioned above

```
Q 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
```

Solution

```
In [15]: #Ques16 Which Python code could replace the ellipsis (...) below to get the following output? (Select all that apply.)
captains = {
         "Enterprise": "Picard",
         "Voyager": "Janeway",
         "Defiant": "Sisko",
}
for ship, captain in captains.items():
    print(ship, captain, end=", ")
Enterprise Picard, Voyager Janeway, Defiant Sisko,
```

Correct Answer is for ship, captain in captains.items(): print(ship, captain)

O 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 $= \{ \}$

Correct Answer is captains={}

Q 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"} catains{"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 Correct Answer is captains["Enterprise"] = "Picard" captains["Voyager"] = "Janeway" captains["Defiant"] = "Sisko" Q 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}.")

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

Correct Answer is for ship, captain in captains.items():

d) All are correct

Q 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()
```

Correct Answer is del captains["Discovery"]