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** **correct Answer**
d) **0**

```
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** **correct answer**
c) **List**
d) **Tuple**

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

a) Tuple **Correct Answer**

b) List

c) Dictionary

d) none

```
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 correct answer

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

a) raise

b) try

c) goto

d) except…… **correct answer** ……..

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

a) timedate

b) date

c) datetime **Correct Answer**

d) time

7) What will be the output of the following code snippet?

print(43 + (7 + 5)**(1 + 1))**

a) 248
b) 169
c) 208 Correct Answer
d) 233

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

a) Strptime

b) Strftime **Correct Answer**

c) both a) and b)

d) None

9) The python tuple is_____in nature.

a) mutable

b)immutable

Correct Answer

c) unchangeable

d) none

10) The_____is a built-in function that returns a range object that consists series of integer numbers, whichwe can iterate using a for loop.

A. range() Correct 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 Correct 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 Correct 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……Correct Answer……..
C. load() method
D. None of the mentioned above

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

A. load()……Correct Answer ……
B. set() method
C. dump() method
D. None of the mentioned above

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

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 Correct Answer

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

18) Now you have your empty dictionary named captains. It's time to add some data!

Specifically, you want to add the key-value pa+irs "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",

} Correct Answer

d) None of the above

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}.")

   Correct Answer

c) for captain, ship in captains.items():

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

d) All are correct

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"] Correct Answer
d) captains["Discovery"].pop()