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))
```

   Answer: 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))
```

   Answer: Filter

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

Answer: Tuple

```
4) set1 = {14, 3, 55}
set2 = {82, 49, 62}
set3={99,22,17}
```

print(len(set1 + set2 + set3))

    Answer: Error

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

    Answer: raise

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

    Answer: datetime

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

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

    Answer: 208

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

    Answer: strptime

9) The python tuple is_____in nature.

    Answer:

immutable

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.

    Answer: range()

Question 11

Amongst which of the following is a function which does not have any name?

    Answer: Lambda function

Question 12

The module Pickle is used to____.

Answer: 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?

Answer: dump() method

14.

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

Answer: load()

15.

A text file contains only textual information consisting of____.

Answer: All of the mentioned above

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

Answer: both a and b

17)

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

Answer: 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?

Answer: 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 alsowant to provide some additional context. How could you do it?

      Answer: 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"?

Answer: del captains["Discovery"]