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))
```

Ans: 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))
```

Ans: b) Filter

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

Ans: a) Tuple

4) set1 = {14, 3, 55}

```
  set2 = {82, 49, 62}
   set3={99,22,17}
print(len(set1 + set2 + set3))
```

Ans: d) Error

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

Ans: a) raise

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

Ans: c) datetime

7) What will be the output of the following code snippet? print(4**3 + (7 + 5)**(1 + 1))

Ans: c) 208

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

Ans: a) strptime

9) The python tuple is _____ in nature.

Ans: b)immutable

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.

Ans: A. range()

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

Ans: D. None of the mentioned above

12) The module Pickle is used to ___.

Ans: D. None of the mentioned above

13) Amongst which of the following is / are the method of convert Python objects for writing data in a binary file?

Ans: B. dump() method

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

Ans: A. load()

15. A text file contains only textual information consisting of ___.

Ans: D. 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

Ans: d) both a and b

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

Ans: c) captains.dict()

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?

Ans: b) captains["Enterprise"] = "Picard"

        captains["Voyager"] = "Janeway"

        captains["Defiant"] = "Sisko"

    c) captains = {

                "Enterprise": "Picard",

                "Voyager": "Janeway",

                "Defiant": "Sisko",

                }

    (both code are working properly but I personally choose b option)

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?

Ans: 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",

 }
```

Ans: c) del captains["Discovery"]