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: c) 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: d) None

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: c) Lambda function

12. The module Pickle is used to ___.

Ans: c) Both A and B

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.)

Ans: d) Both a and b

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

Ans: d) 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?

Ans: b) 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 also want to provide some additional context. How could you do it?

Ans: s 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", }

What statement will remove the entry for the key "Discovery"?

Ans: c) del captains["Discovery"]