

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 -> 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 -> 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 -> A) Alphabets

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 -> 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 -> a) for item 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 -> d) `captains["Discovery"].pop()`