

ASSIGNMENT-1

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- (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))
```

ANSWER- (c) List
3. As what datatype are the *args stored, when passed into

ANSWER- (a) Tuple
4.

```
set1 = {14, 3, 55}  
set2 = {82, 49, 62}  
set3 = {99, 22, 17}  
print(len(set1 + set2 + set3))
```

ANSWER- (d) Error
5. What keyword is used in Python to raise exceptions?

ANSWER- (a) Raise
6. Which of the following modules need to be imported to handle date time computations in Python?

ANSWER- (c) Datetime
7. What will be the output of the following code snippet?

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

ANSWER- (c) 208
8. Which of the following functions converts date to corresponding time in Python?

ANSWER- (c) Both a and b
9. The python tuple is _____ in nature.

ANSWER- (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.
ANSWER- (a) Range
11. Amongst which of the following is a function which does not have any name?
ANSWER- (c) Lambda Function
12. The module Pickle is used to ____.
ANSWER- (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?
ANSWER- (b) Dump() method
14. Amongst which of the following is / are the method used to unpickling data from a binary file?
ANSWER- (a) Load()
15. A text file contains only textual information consisting of ____.
ANSWER- (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
ANSWER- (d) both a and b
17. Which of the following lines of code will create an empty dictionary named captains?
ANSWER- (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?
**ANSWER- (c) captains = {
 "Enterprise": "Picard",
 "Voyager": "Janeway",
 "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?

ANSWER- (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"?

ANSWER- (c) del captains["Discovery"]