

Assignment - 1

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)

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: **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))

Ans: **Error**

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

Ans: **Raise**

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

Ans: **datetime**

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

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

Ans: **208**

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

Ans: **strptime**

9. The Python tuple is_____in nature.

Ans: **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: **range**

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

Ans: **Lambda**

12. The module Pickle is used to_____.

Ans: **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: **dump()method**

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

Ans: **load()**

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

Ans: **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: **both A and B**

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

Ans: **captains = {}**

18. Now you have your empty dictionary named captains. It's time to add some data!

Ans: **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?

Ans: **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: **captains.remove()**