

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))
```

Output = 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))
```

Output = FLITER

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

Output = TUPLE

4) set1 = {14, 3, 55}

set2 = {82, 49, 62}

set3 = {99,22,17}

```
print(len(set1 + set2 + set3))
```

Output = ERROR

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

Output = RAISE

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

Output=datetime

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

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

Output = 208

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

Output = striptime

9) The python tuple is _____ in nature.

Output = 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.

Output = range

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

Output = lambda function

12) The module Pickle is used to ____.

Output = Serializing and De-serializing Python object structure

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

Output = dump()method

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

Output = load()

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

Output=Alphabets, Numbers & Special symbols

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
```

Output = A) for ship, captain in captains.items():

```
    print(ship, captain)
```

B) for ship in captains:

```
    print(ship, captains[ship])
```

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

Output = `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?

```
Output = 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?

Output = for captain, ship 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"?

Output = del captains["Discovery"]