

Assignment

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: C. 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.)

```
captains = {  
    "Enterprise": "Picard",  
    "Voyager": "Janeway",  
    "Defiant": "Sisko", }  
  
Enterprise Picard,  
-Voyager Janeway  
-Defiant Sisko
```

Ans: b) for ship in captains:

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

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: 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?

Ans: c) 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"?

Ans: c) del captains["Discovery"]