

Assignment 1:

1) `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 int

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: d) None

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: 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: 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: b) for ship, captain in `captains.item()`:

```
Print(f' The {ship} is Captained by {captains}.'
```

- 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"]`