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))

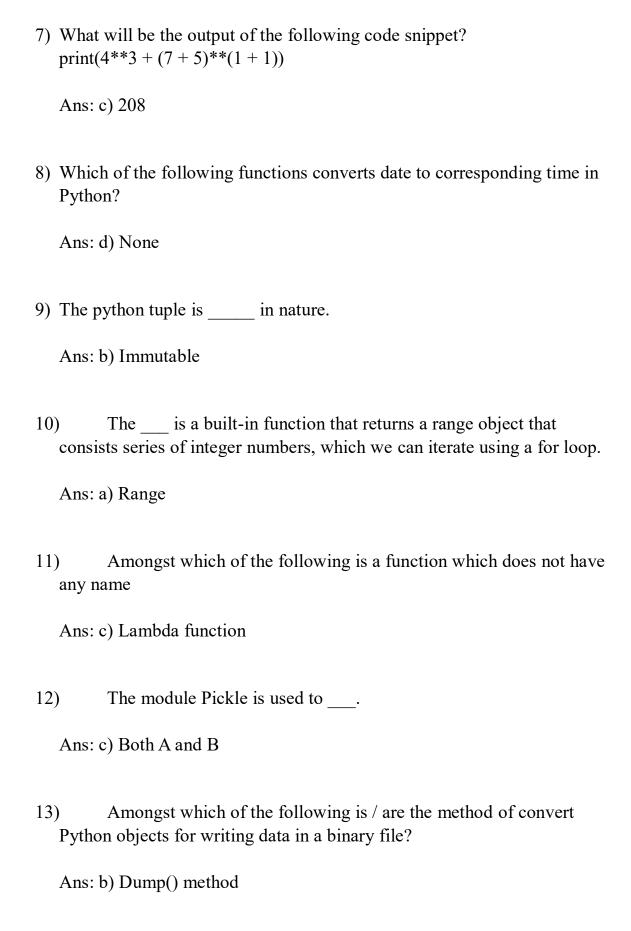
Ans: d) Error

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



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 = \{\}
```

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 ["Dicovery"]