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))

Answer: 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)

Answer: Filter

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

**Answer: Dictionary** 

4. set1 = {14, 3, 55}
 set2 = {82, 49, 62}
 set3={99,22,17}
 print(len(set1 + set2 + set3))

print(type(even\_numbers))

**Answer: Error** 

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

Answer: raise

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

**Answer: datetime** 

7. What will be the output of the following code snippet? print(4\*\*3 + (7 + 5)\*\*(1 + 1))

Answer:208

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

Answer: both a) and b)

9. The python tuple is \_\_\_\_\_ in nature.

**Answer: 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? **Answer: Lambda function** 12. The module Pickle is used to \_\_\_\_. Answer: 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? Answer: dump() method 14. Amongst which of the following is / are the method used to unpickling data from a binary file? Answer: load() 15. A text file contains only textual information consisting of \_\_\_\_. Answer: All of the mentioned above(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** 

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

Answer: captains = {}

Answer: both a and b

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? Answer: 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 want to provide some additional context. How could you do it? Answer: 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 = {

```
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"?
```

Answer: del captains["Discovery"]