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))

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) print(type(even\_numbers)

Answer = **Filter**

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

Answer = **Tuple**

4. set1 = {14, 3, 55}

set2 = {82, 49, 62}

set3={99,22,17}

print(len(set1 + set2 + set3))

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?

Answer **= 208**

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

Answer = **strptime**

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 = **Alphabets**

**B. Numbers**

**C. Special symbols**

**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

Answer = **both a and b**

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

Answer = **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?

Answer = **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?

Answer = **for item in captains.items():**

**print(f"The [ship] is captained by [captain].")**

**b) for ship, captain in captains.items():**

**print(f"The {ship} is captained by {captain}.")**

**c) for captain, ship in captains.items():**

**print(f"The {ship} is captained by {captain}.")**

**d) All are correct**

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"?

Answer = **del captains["Discovery"]**