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 – 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))

Answer – b – Filter

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

Answer – a – Tuple

4) set1 = {14, 3, 55}

set2 = {82, 49, 62}

set3={99,22,17}

print(len(set1 + set2 + set3)).

Answer – d – Error

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

Answer – a – raise

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

Answer – c – datetime

7) What will be the output of the following code snippet?

Answer – c – 208

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

Answer – c – both a and b (strptime and strftime)

9) The python tuple is _____ in nature.

Answer – 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.

Answer – A. range()

11 Amongst which of the following is a function which does not have any name?

Answer – C. Lambda function

12 The module Pickle is used to ____.

Answer – C. Both A and B (Serializing Python object structure and De-serializing Python object structure)

13 Amongst which of the following is / are the method of convert Python objects for writing data in a binary file?

Answer - B. dump() method

14 Amongst which of the following is / are the method used to unpickling data from a binary file?

Answer – A. load() method

15 A text file contains only textual information consisting of ____.

Answer – 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 – d) both a and b

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

Answer – 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?

If output is {'Enterprise': 'Picard', 'Voyager': 'Janeway', 'Defiant': 'Sisko'}

Then Answer – b) and c)

```
captains = {
    "Enterprise": "Picard",
    "Voyager": "Janeway",
    "Defiant": "Sisko",
    "Discovery": "unknown",
}
del captains["Discovery"]
```

Output - {'Enterprise': 'Picard', 'Voyager': 'Janeway', 'Defiant': 'Sisko'}

If output is similar like this "Enterprise": "Picard", "Voyager": "Janeway", "Defiant": "Sisko"

Then Answer – d) None of the above

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 – b) 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 = {

"Enterprise": "Picard",

"Voyager": "Janeway",

"Defiant": "Sisko",

"Discovery": "unknown",

}

What statement will remove the entry for the key "Discovery"?

Answer – c) del captains["Discovery"]