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))
```

Ans.:
   a) 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 into

Ans.:

a) Tuple

4) set1 = {14, 3, 55}

set2 = {82, 49, 62}

set3={99,22,17}

print(len(set1 + set2 + set3))

    a) **105**
    b) **270**
    c) **0**
    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.:

a) date

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.:

a) both a) and b)

9) The python tuple is_____in nature.

Ans.:

b)immutable

10) 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()

Question 11

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

Ans.:

    A. Lambda function

Question 12

The module Pickle is used to___.

Ans.:

    A. Both A and B

Question 13

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

Ans.:

    A. dump() method

14

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

    A. load()

15.

A text file contains only textual information consisting of ____.

Ans.:

    A. All of the mentioned above

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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.:

a) both a and b

17)

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

Ans.:

a) 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.:

a) 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.:

    a)   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"?

Ans.:
    a)   del captains["Discovery"]