1) def function(a,b):

   return b if a==0 else function(b%a,a)

   print(function(30,75))

Ans: 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 Filter

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

Ans: Tuple

4) set1 = {14, 3, 55}

set2 = {82, 49, 62}

set3={99,22,17}

print(len(set1 + set2 + set3))

Ans: Error

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

Ans: Raise

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

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

Ans:208

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

Ans: strptime()

9) The python tuple is _____ in nature.

Ans: Unchangleable

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: Range()

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

Ans: Lambda Function

12) The module Pickle is used to ____.

Ans: 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?

Ans: Dump

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

Ans: load

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

Ans: All the above

16) Which Python code could replace the ellipsis (...) below to get the following output? (Select all that apply.)

Ans: for ship in captains:

 print(ship, captains[ship])

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

Ans: 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:

) 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: 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:

Ans: del captains["Discovery"]