**Assignment 1:**

1. def func(a, b):

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

print(func(30, 75))

Ans: c) 15

1. 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

1. As what datatype are the \*args stored, when passed int

Ans: a) Tuple

1. set1 = {14, 3, 55}

set2 = {82, 49, 62}

set3={99,22,17}

print(len(set1 + set2 + set3))

Ans: d) Error

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

Ans: a) Raise

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

Ans: c) datetime

1. What will be the output of the following code snippet?

print(4\*\*3 + (7 + 5)\*\*(1 + 1))

Ans: c) 208

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

Ans: d) None

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

Ans: b) Immutable

1. 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

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

Ans: c) Lambda function

1. The module Pickle is used to \_\_\_.

Ans: c) Both A and B

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

Ans: b) Dump() method

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

Ans: a) load()

1. A text file contains only textual information consisting of \_\_\_.

Ans: d) All of the mentioned above

1. 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: d) Both a and b

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

Ans: d) captains = {}

1. 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: b) captains["Enterprise"] = "Picard"

captains["Voyager"] = "Janeway"

captains["Defiant"] = "Sisko"

1. 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: b) for ship, captain in captains.item():

Print(f’ The {ship} is Captained by {captains}.’)

1. 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: c) del captains [“Dicovery”]