Assignment 1

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:- 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?

Ans:- datetime

7) What will be the output of the following code snippet? print(4\*\*3 + (7 + 5)\*\*(1 + 1))

Ans:- 208

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

Ans:- Both (a) and (b)

9) The python tuple is \_\_\_\_\_ in nature.

Ans:- 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.

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 \_\_\_.

A. Serializing Python object structure

B. De-serializing Python object structure

C. Both A and B

D. None of the mentioned above

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() method

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

Ans:- load() method

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

A. Alphabets

B. Numbers

C. Special symbols

D. All of the mentioned above

Ans:- 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

a) for ship, captain in captains.items():

print(ship, captain)

b) for ship in captains:

print(ship, captains[ship])

c) for ship in captains:

print(ship, captains)

d) both a and b

Ans:- a) for ship, captain in captain.items():

print( ship, captain )

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

Ans:- Captains={}

18) Which of the following code snippets will successfully add these key-value pairs to the existing captains dictionary?

a) captains{"Enterprise" = "Picard"}

captains{"Voyager" = "Janeway"}

captains{"Defiant" = "Sisko"}

b) captains["Enterprise"] = "Picard"

captains["Voyager"] = "Janeway"

captains["Defiant"] = "Sisko"

c) captains = { "Enterprise": "Picard", "Voyager": "Janeway", "Defiant": "Sisko", }

d) None of the above

Ans:- Both (a) and (b) are correct

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?

1. for item in captains.items():

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

1. for ship, captain in captains.items():

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

1. for captain, ship in captains.items():

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

1. All are correct
2. Ans:- for ship, captain in captains.items():

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

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

a) del captains

b) captains.remove()

c) del captains["Discovery"]

d) captains["Discovery"].pop()

Ans:- del captains[“Discovery”]