**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))

**Solution**: print(func(30, 75))

- 75 % 30 = 15

- func(15, 30)

- 30 % 15 = 0

- func(0, 15)

- since a = 0, return b

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))

**Solution:** print(type(even\_numbers))

- sorted\_numbers = (2, 4, 7, 19, 22, 45, 72, 89)

- even\_numbers = filter(even, sorted\_numbers)

- print(type(even\_numbers))

Answer B: Filter

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

a) Tuple

b) List

c) Dictionary

d) none

Answer : Datatype of the arg itself

**4)** set1 = {14, 3, 55}

set2 = {82, 49, 62}

set3={99,22,17}

print(len(set1 + set2 + set3))

**Solution**: We cannot add set with + sign.

We can use .add for a single item or .update for a collection

Answer D: Error

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

a) raise

b) try

c) goto

d) except

Answer A: raise

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

Python?

a) timedate

b) date

c) datetime

d) time

Answer C: datetime module

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

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

**Solution:**

4\*\*3 = 64

7+5 = 12\*\*2 = 144

64 + 144 = 208

Answer C: 208

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

a) strptime

b) strftime

c) both a) and b)

d) None

While strftime takes a datetime object and converts it into the corresponding time, strptime takes a string in the right format and extracts desired date and time.

Answer: B

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

a) mutable

b)immutable

c)unchangeable

d) none

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.

A. range()

B. set()

C. dictionary{}

D. None of the mentioned above

Answer A: range()

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

A. Del function

B. Show function

C. Lambda function

D. None of the mentioned above

Answer B: Show 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

Answer C: Serializing and De-serializing python object

13.

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

a binary file?

A. set() method

B. dump() method

C. load() method

D. None of the mentioned above

Answer B: dump() method

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

A. load()

B. set() method

C. dump() method

D. None of the mentioned above

Answer A: load()

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

A. Alphabets

B. Numbers

C. Special symbols

D. All of the mentioned above

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

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

Answer D: Both A and B

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

a) captains = {dict}

b) type(captains)

c) captains.dict()

d) 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?

Answer B and C:

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"]