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: 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))

Ans: b) Filter

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

Ans: d) None

4) set1 = {14, 3, 55}
set2 = {82, 49, 62}
set3={99,22,17}

print(len(set1 + set2 + set3))

Ans: 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: c) datetime

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: c) both a) and b)

9) The python tuple is _____ in nature.

Ans: 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.

Ans: A. range()

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

Ans: C. Lambda function

Question 12
The module Pickle is used to ___.

Ans: C. 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: B. dump() method

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

Ans: A. load()

15.
A text file contains only textual information consisting of ___.

Ans: 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

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

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

Ans: 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?

Ans: b) 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: 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"?

Ans: c) del captains["Discovery"]