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- a) Tuple

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- d) 233

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

Ans- b) strftime

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()

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

12-The module Pickle is used to ___.
Ans- C. 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- 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- c) captains = {
"Enterprise": "Picard",
"Voyager": "Janeway",
"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"]