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

Ans :

c) 208

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

Ans :

d) None

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. A. range() B. set() C. dictionary{} D. None of the mentioned above

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

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 containe

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"]