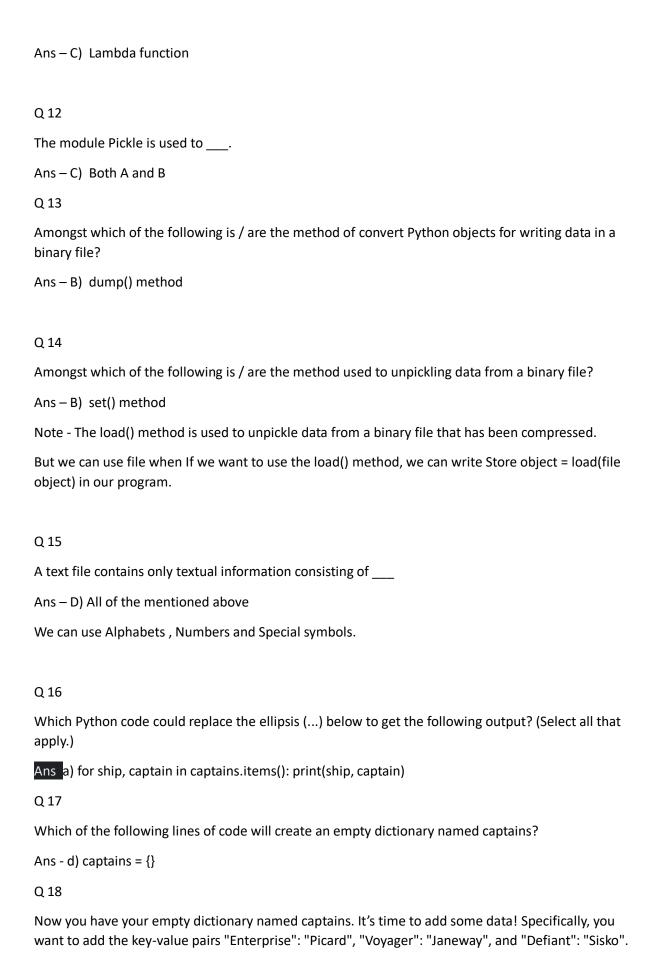Q1

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

Q 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

Q 3

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

Ans - a) Tuple

Q 4
```
set1 = {14, 3, 55}
set2 = {82, 49, 62}
set3={99,22,17}
print(len(set1 + set2 + set3))
```
Ans – Error (because we can't add integer and string)

After correcting
```
set1 = {14, 3, 55}
set2 = {82, 49, 62}
```

set3={99,22,17}

print (len('set1' + 'set2' + 'set3'))

Output - 12

Q 5

What keyword is used in Python to raise exceptions?

Ans - a) raise

Q 6

Which of the following modules need to be imported to handle date time computations in Python?

Ans - c) datetime

Q 7

What will be the output of the following code snippet?

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

Ans - c) 208

Q 8

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

Ans - a) strptime

Q 9

The python tuple is _____ in nature

Ans - b)immutable

Q 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()

Q 11

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

Ans – C) Lambda function

Q 12

The module Pickle is used to ___.

Ans – C) Both A and B

Q 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

Q 14

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

Ans – B) set() method

Note - The load() method is used to unpickle data from a binary file that has been compressed.

But we can use file when If we want to use the load() method, we can write Store object = load(file object) in our program.

Q 15

A text file contains only textual information consisting of ___

Ans – D) All of the mentioned above

We can use Alphabets , Numbers and Special symbols.

Q 16

Which Python code could replace the ellipsis (...) below to get the following output? (Select all that apply.)

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

Q 17

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

Ans - d) captains = {}

Q 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", }

Q 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}.")

Q 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", }

Ans - c) del captains["Discovery"]