```
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))
a) 10
b) 20
c) 15
d) 0
solution: def func(a, b):
               return b if a == 0 else func(b % a, a)
          print(func(30, 75))
   output: 15
Question 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))
output: filter
Question 3)
```

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

Question 1).

a) Tuple b) List c) Dictionary d) none **Output: Tuple Question 4)** set1 = {14, 3, 55} set2 = {82, 49, 62} set3={99,22,17} print(len(set1 + set2 + set3)) **Output: Error Question 5)** What keyword is used in Python to raise exceptions? **Output: raise Question 6)** Which of the following modules need to be imported to handle date time computations in Python? **Output: dateime** Question 7) What will be the output of the following code snippet? print(4\*\*3 + (7 + 5)\*\*(1 + 1))

output: 208
Question 8)
Which of the following functions converts date to corresponding time in Python?
Output: strtime
Question 9)
The python tuple is in nature.
Output: unchangeable
Question 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.
Output: range()
Question 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
Output: Lambda function
Question 12
The module Pickle is used to
Output: Serializing Python object structure as well as De-serializing Python object structure
Question 13
Amongst which of the following is / are the method of convert Python objects for writing data in a binary file?
Output: dump() method
Question 14
Amongst which of the following is / are the method used to unpickling data from a binary file?
Output: load() method
Question 15)
A text file contains only textual information consisting of
A. Alphabets
B. Numbers
C. Special symbols
D. All of the mentioned above

### **Output: All of the mentioned above**

#### **Question 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** 

### **Output:**

- a) for ship, captain in captains.items(): print(ship, captain)
- b) for ship in captains: print(ship, captains[ship])

## **Question 17)**

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

Output: captains = {}

# **Question 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?

#### **Output:**

```
captains["Enterprise"] = "Picard"
captains["Voyager"] = "Janeway"
captains["Defiant"] = "Sisko"
```

## **Question 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?

## **Output:**

for ship, captain in captains.items():

```
print(f"The {ship} is captained by {captain}.")
```

### **Question 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:

What statement will remove the entry for the key "Discovery"?

### **Output:**

del captains["Discovery"]