Answers:

Question 1:

```
def func(a,b):
    if a == 0:
        return b
    else:
        return func(b%a, a)

print(func(30,75))
```

Answer: c) 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))
```

Answer: b) Filter

Question 3:

As what datatype are the *args stored, when passed into
a) Tuple
b) List
c) Dictionary
d) none

Answer: a) Tuple

Question 4:

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

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

Answer: d) Error

Question 5:
What keyword is used in Python to raise exceptions?

Answer: a) raise

Question 6:

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

Answer: c) datetime

Question 7:
What will be the output of the following code snippet?

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

Answer: c) 208

Question 8:

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

Answer: b) strftime

Question 9:

The python tuple is _____ in nature.

Answer: b) immutable

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.

Answer: A. range()

Question 11:

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

Answer: C. Lambda function

Question 12:

The module Pickle is used to ___.

Answer: 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?

Answer: B. dump() method

Question 14:

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

Answer: A. load()

Question 15:

A text file contains only textual information consisting of ___.

Answer: D. 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
```

Answer: d) both a and b

Question 17:

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

Answer: d) captains = {}

Question 18:

Now you have your empty dictionary named. 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 dictionary?

Answer: b) 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?

Answer: b) 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:

```
captains = {
    "Enterprise": "Picard",
    "Voyager": "Janeway",
    "Defiant": "Sisko",
    "Discovery": "unknown",
}
```

Answer: c) del captains["Discovery"]