

```
1.) def func(a, b):  
    return b if a == 0 else func(b % a, a)  
  
print(func(30, 75))
```

**Ans. 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. Filter**

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

**Ans. Tuples**

```
4) set1 = {14, 3, 55} set2 = {82, 49, 62} set3={99,22,17} print(len(set1 + set2 + set3))
```

**Ans. Error**

5.) What keyword is used in Python to raise exceptions?

**Ans. Raise**

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

**Ans. Timedate**

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

**Ans.208**

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

**Ans. C) both a) and b)**

9.) The python tuple is **IMMUTABLE** in nature

10.) The **Range()** is a built-in function that returns a range object that consists series of integer numbers, which we can iterate using a for loop

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

**Ans. Lambda Function**

12.) The module Pickle is used to \_\_\_\_.

**Ans. Serializing and De-Serializing Python Object Structure**

13.) Amongst which of the following is / are the method of convert Python objects for writing data in a binary file?

**Ans. Dump() Method**

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

**Ans. Set() Method**

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

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

**Ans. 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?

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

**Ans.**

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.**

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. `captains.remove()`**