

1.

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

answer—15

2.

```
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=filter

3.

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

Answer= tuple.

4. set1={14,3,55}

set2={82,49,62}

set3={99,22,17}

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

answer==error

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

Answer=raise

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

Answer=datetime

7. 7) What will be the output of the following code snippet?

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

answer=208

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

Answer=None.

9.The python tuple is immutable in nature.

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—range()

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

Answer=lambda function.

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

Answer-serializing and deserializing python object structure.

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

Answer=dump method.

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

Answer-load () function

15. A text file contains only textual information consisting of \_\_\_\_.

Answer-alphabet,numbers and special symbols.

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=

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

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

Answer-

```
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?

Answer=

```
captains["Enterprise"] = "Picard"  
captains["Voyager"] = "Janeway"  
captains["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 contained in the dictionary, but you also want to provide some additional context. How could you do it?

Answer=

```
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"?

Answer=

```
del captains["Discovery"]
```