

```
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 : Class

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

- a) Tuple
- b) List
- c) Dictionary
- d) none

Ans: Tuple

```
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?

- a) raise
- b) try
- c) goto
- d) except

Ans: raise

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

Ans: datetime

7) What will be the output of the following code snippet? `print(4**3 + (7 + 5)**(1 + 1))`

Ans: 208

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

Ans: strptime

9) The python tuple is _____ in nature.

Ans: immutable

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: range()

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

Ans : None of the mentioned above

12) The module Pickle is used to ____.

Ans. Serializing & 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 : load()

15) A text file contains only textual information consisting of ____.

Ans : Alphabets, 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

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

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?

Ans : captains = { "Enterprise": "Picard", "Voyager": "Janeway", "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?

Ans: a) for item in captains.items(): print(f"The [ship] is captained by [captain].")
b) for ship, captain in captains.items(): print(f"The {ship} is captained by {captain}.")
c) for captain, ship 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"?

Ans : captains.pop("Discovery")