

1 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))`

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

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

Ans:tuple

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

Ans:error answer is 9

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

Ans:except

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

Ans:datetime

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

Ans:208

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

Ans:strptime

1. The python tuple is _____ in nature.

Ans:b)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:A. range()

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

ans:D. None of the mentioned above

12)The module Pickle is used to ____.

ans:C. Both A and B

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

ans:B. dump() method

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

ans:A. load()

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.)

ans:d) both a and b

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

ans:d) captains = {}

18)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:d) None of the above

19)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].")
```

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:b) captains.remove()b) captains.remove()