

1. Def func(a,b):
 Return b if a==0 else func(b%a,a)
 Print (func(30,75))

a=30 and b=75

Func(30,75) calls func(75%30,30)

= func(15,30)

Func(15,30) calls func(30%15,15)

= func(0,15)

Answer is 15 (C)

2. Numbers = (4,7,19,2,89,45,72,22)
 Sorted_numbers = sorted(numbers)
 even = lamda a:a %2 ==0
 even _ numbers = fliter(even, sorted _numbers)
 Print(type(even_numbers))

Answer is Filter (B)

3. in python, when we use *args it collects all the positional arguments passed to the function into a tuple

Answer is Tuple (A)

4. set1 = (14,3,55)
 Set2 = (82,49,62)
 Set3 = (99,22,17)
 Print(len(set1+set2+set3))

$S = (14, 3, 55) \cup (82, 49, 62) \cup (99, 22, 17)$

Answer is Error (D)

5. In Python, the raise keyword is used to raise exceptions

Answer is Raise (A)

6. In Python, to handle date and time computations, you need to import the datetime modules

Answer is Datetime (C)

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

Solve brackets first

$(1+1) = 2$ and $(7+5) = 12$

$4**3 = 64$

$4**3 + (7+5)**2 = 64 + 144 = 208$

Answer is 208 (C)

8. Answer `strptime`. Functions convert date to corresponding time in Python.

9. The Python tuple is immutable in nature.

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

11. Lambda function is a function which does not have any name.

12. The module `pickle` is used to . Serialize and deserialize data types

Answer is both A and B (C)

13. A dump is a method used to convert Python objects for writing data in Binary file.

14. Load() method is used to unpickling data from a binary file.

15. A text file contains only textual information consisting of numbers , alphabets special symbols

Answer is All of the mentioned above (D)

16. Which python code could replace the ellipsis (...) below to get the following output?

Answer (A) for ship, captain in captains.items() print(ship, captain)

17. Captains.dict() will create an empty dictionary named captions.

Answer is (C)

18. Now you have your empty dictionary named captions. 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 captions dictionary

Answer is (B) captions ("Enterprise") = " Picard"

captains ("Voyager") = " Janeway"

captains ("Defiant") = " Sisko"

19. Answer B

20. Answer C