

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

output:15

option C

```
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))
```

output:Filter

option B

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

Output:Tuple

Option :A

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

Output: Error

Option:d

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

Output:Raise

Option:A

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

Output:datetime

Option:C

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

Output:208

Option:c

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

Output: strptime

Option:A

9. The python tuple is _____ in nature

Output:Immutable

Option:B

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.

Output:Range

Option:A

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

Output:Del

Option:A

12. The module Pickle is used to ____.

Output: Both A and B

Option:c

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

Output:dump()

Option:B

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

Output:Load()

Option:A

15. A text file contains only textual information consisting of

Output: All of the mentioned above

Option:d

16. Which Python code could replace the ellipsis (...) below to get the following output? (Select all that apply.)

Output: for ship in captains: print(ship, captains)

Option:c

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

Output: captains = {}

Option:d

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?

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

Option:A

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?

Output: all are correct

Option:D

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", }`

OUTPUT: `del captains["Discovery"]`

OPTION C