

MCQ

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))
```

Answer 1 : 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))`

Answer 2 : Filter

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

Answer 3 : Tuple

4. `set1 = {14, 3, 55}`
`set2 = {82, 49, 62}`
`set3={99,22,17}`

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

Answer 4 : Error

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

Answer 5 : raise

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

Answer 6 : datetime

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

Answer 7 : 208

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

Answer 8 : None

9. The python tuple is _____ in nature.

Answer 9 : 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.

Answer 10 : range()

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

Answer 11 : Lambda function

12. The module Pickle is used to ____.

Answer 12 : 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?

Answer 13 : dump() method

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

Answer 14 : load()

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

Answer 15 : All of the mentioned above

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 16 : both a and b

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

Answer 17 : 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 18 : `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 19 : `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 20 : `del captains["Discovery"]`