

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= 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= Filter

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

Answer= Tuple

4. set1 = {14, 3, 55}

```
set2 = {82, 49, 62}
```

```
set3={99,22,17}
```

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

Answer=Error

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

Answer= Raise

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

Answer=Datetime

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

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

Answer= 208

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

Answer=`strptime`

9. The python tuple is _____ in nature.

Answer=`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=`range()`

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

Answer=`Lambda function`

12. The module Pickle is used to ____.

Answer=`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= `dump()` method

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

Answer=`load()`

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

Answer=`All of the mentioned above`

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

Answer=`both a and b`

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

Answer) `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. `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",}
```

Answer= `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",}
```

Answer= `del captains["Discovery"]`