

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

3) 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

What keyword is used in Python to raise exceptions?

Ans :- Raise

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

Ans:- datetime

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

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

Ans:- 208

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

Ans:- None

9) The python tuple is _____ in nature.

Ans:- immutable, unchangeable

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:- Range()

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

Ans:- Lambda function

12) The module Pickle is used to ____.

Ans :- Both A&C (Serializing Python object structure and De-serializing Python object structure)

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

Ans :- dump() method

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

Ans:- load()

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

Ans:- All of the mentioned (Alphabets, Numbers, Special symbols)

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
```

Ans:- both a and b(for ship, captain in captains.items(): print(ship, captain) and for ship in captains: print(ship, captains[ship]))

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

Ans:- `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?

Ans: `captains = { "Enterprise": "Picard", "Voyager": "Janeway", "Defiant": "Sisko", }`

19) You're really building out the Federation Starfleet now! Here's what you have:

Ans:- All are correct

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"?

Ans: `del captains["Discovery"]`