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**Batch: DSG0223**

**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**

**5)** What keyword is used in Python to raise exceptions?

**Ans. Raise**

**6)** 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. strptime**

9) The python tuple is \_\_\_\_\_ in nature.

**Ans. 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.

**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 and B**

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. set() method**

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

**Ans. 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

**Ans. both a and b**

**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:

```
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?

**Ans.** `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"?

**Ans.** `del captains["Discovery"]`