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Subject – MCQ

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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 – C – 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 – B – Filter

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

Answer – A – Tuple

4) set1 = {14, 3, 55}

set2 = {82, 49, 62}

set3={99,22,17}

print(len(set1 + set2 + set3))

Answer – D – Error

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

Answer – A – raise

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

Answer – C – datetime

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

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

Answer – C – 208

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

I am confusion for this question so give two answers

Answer – A – `strptime`

Answer – C – both a) and b)

9) The python tuple is _____ in nature.

Answer – B – 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 – A. `range()`

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

Answer – C – Lambda function

12) The module Pickle is used to ____.

Answer – C – Both A and B (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?

Answer – B – `dump()` method

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

Answer – A – `load()` method

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

Answer – D – 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 – D – both A and B

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

Answer – D – 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 – B – 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 – B – 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 – C – del captains["Discovery"]