

PROJECT

[Q.1]

```
def func(a, b):  
    return b if a == 0  
else func(b % a, a)  
print(func(30, 75))
```

[Ans=1] option C [15],because GCD is 15 of func(30,75).

[Q.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=2] option B [filter],because when we use filter we get filter class for optout result we need to convert into list then we get even numbers.

[Q.3]

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

[Ans=3] option A [tuple],because *args stored in tuple only.

[Q.4]

```
set1 = {14, 3, 55}  
set2 = {82, 49, 62}  
set3={99,22,17}  
print(len(set1 + set2 + set3))
```

[Ans=4] option D [Error],because '+' this operator is not defined for sets in python.

[Q.5]

What keyword is used in Python to raise exceptions?

[Ans=5] option A [raise]

[Q.6]

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

[Ans=6] option C [datetime]

[Q.7]

What will be the output of the following code snippet?

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

[Ans=7] option C [208]

[Q.8]

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

[Ans=8] option B [strftime]

[Q.9]

The python tuple is _____ in nature.

[Ans=9] option B [immutable]

[Q.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=10] option A [range()]

[Q.11]

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

[Ans=11] option C [Lambda function]

[Q.12]

The module Pickle is used to ____.

[Ans=12] option C [Both A and B]

[Q.13]

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

[Ans=13] option B [dump() method]

[Q.14]

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

[Ans=14] option A [load()]

[Q.15]

A text file contains only textual information consisting of ____.

[Ans=15] option D [All of the mentioned above]

[Q.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=16] option D [both a and b]

[Q.17]

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

[Ans=17] option D [captains={}]

[Q.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=18] option B [`captains["Enterprise"] = "Picard"`

`captains["Voyager"] = "Janeway"`

`captains["Defiant"] = "Sisko"]`

[Q.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=19] option B [`for ship, captain in captains.items():`

`print(f"The {ship} is captained by {captain}.")]`

[Q.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=20] option C [`del captains["Discovery"]`]

