

MCQ

1 What will be the output of the following code snippet?

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))
```

b) Filter

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

a) Tuple

```
4 set1 = {14, 3, 55}
set2 = {82, 49, 62}
set3={99,22,17}
```

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

d) Error

5 What keyword is used in Python to raise exceptions?

a) raise

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

c) datetime

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

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

c) 208

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

b) strftime

9 The python tuple is _____ in nature.

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.

a) range()

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

c) Lambda function

12 The module Pickle is used to ____.

c) 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?

b) dump() method

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

c) dump() method

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

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
```

d) both a and b

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

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?

c) 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?
```

a) for item 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"?

c) del captains["Discovery"]