FLIP ROBO TECHNOLOGIES

Data Trained Education Academy

Data Science Internship

File-1

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MCQ

```
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

Reason-: The error in your code is that you cannot use the "+" operator to concatenate sets like you can with lists or strings. Sets do not support this kind of concatenation using "+".

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 (But I have not used strptime function, I have used datetime function.)

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

Reason-: The module pickle in Python is used for both serializing (saving) and deserializing (loading) Python object structures.

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

ANS-: dump() Mehtod

Reason-: The method of converting Python objects for writing data to a binary file is the dump() method. This method is used with the pickle module to serialize and save Python objects to a binary file.

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 thr above mentioned.

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",
```

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?

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?

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",
}
```

ANS-: del captains["Discovery"]

