

Answers of Assignment given on 10/06/2024

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: option (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: option(B) – Filter

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

Answer: option(A) – Tuple

4) set1 = {14, 3, 55}

```
set2 = {82, 49, 62}
```

```
set3={99,22,17}
```

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

Answer: option(D)- Error

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

Answer: option(A)- Raise

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

Answer: option(C)- Datetime

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

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

Answer: option(C)- 208

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

Answer: option(A)- strptime

9) The python tuple is _____ in nature.

Answer: option(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: option(A) -range()

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

Answer: option(C)- Lambda function

12) The module Pickle is used to _____.

Answer: option(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?

Answer: option(B)- dump() method

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

Answer: option(A)- load()

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

Answer: option(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: option(D)- Both A and B

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

Answer: option(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: option(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: option(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:

Answer: option(C)- `del captains["Discovery"]`