

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))
```

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 – 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))

a) 105 b) 270 c) 0 d) Error

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 - b) 169

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

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

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()

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 - a) for ship, captain in captains.items():

```
print(ship, captain)
```

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"]