

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-> 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))
```

Ans-> b) Filter

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

Ans-> a) Tuple

4) set1 = {14, 3, 55}

set2 = {82, 49, 62}

set3={99,22,17}

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

Ans-> d) Error

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

Ans -> a) raise

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

Ans-> c) datetime

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

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

Ans-> c) 208

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

Ans-> a) strptime

9) The python tuple is \_\_\_\_\_ in nature.

Ans -> 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.

Ans-> a) range()

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

Ans-> c) Lambda function

12) The module Pickle is used to \_\_\_\_.

Ans-> 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?

Ans-> b) dump() method

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

Ans-> a) load()

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

Ans-> 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
```

Ans-> d) both a and b

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

Ans-> 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?

Ans-> 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?

Ans-> 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"?

Ans-> c) del captains["Discovery"]