

Internship Assignment

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: (c) 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: (A). Serializing Python object structure and (B). De-serializing Python object structure

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

Ans: Alphabets, Numbers and Special symbols

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

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

b) for ship in captains:

```
print(ship, captains[ship])
```

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

Ans: (d) captain{}

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:(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?

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"]