

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 = **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 = **Tuple**

```
4. set1 = {14, 3, 55}  
    set2 = {82, 49, 62}  
    set3={99,22,17}  
    print(len(set1 + set2 + set3))
```

Answer = **Error**

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

Answer = **raise**

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

Answer = **datetime**

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

Answer = **208**

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

Answer = **strptime**

9. The python tuple is _____ in nature.

Answer = **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 = **range()**

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

Answer = **Lambda function**

12. The module Pickle is used to ____.

Answer = **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 = **dump() method**

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

Answer = **load()**

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

Answer = **Alphabets**

B. Numbers

C. Special symbols

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 = **both a and b**

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

Answer = **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 = **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 = **for item in captains.items():**
 print(f"The [ship] is captained by [captain].")

b) for ship, captain in captains.items():
 print(f"The {ship} is captained by {captain}.")

c) for captain, ship in captains.items():
 print(f"The {ship} is captained by {captain}.")

d) All are correct

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 = **del captains["Discovery"]**