

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))
```

1 What will be the output of the following code snippet?

➔ 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))
```

➔ b) Filter

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

➔ a) Tuple

4.

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

➔ d) Error

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

➔ a) raise

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

➔ c) datetime

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

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

➔ c) 208

8. Which of the following functions converts date to corresponding time in Python?
→ **d) None**
9. The python tuple is _____ in nature.
→ **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.
→ **a) range()**
11. Amongst which of the following is a function which does not have any name?
→ **c) Lambda function**
12. The module Pickle is used to ____.
→ **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?
→ **b)dump() method**
14. Amongst which of the following is / are the method used to unpickling data from a binary file?
→ **a) load()**
15. A text file contains only textual information consisting of ____.
→ **d) All of the mentioned above**
16. Which Python code could replace the ellipsis (...) below to get the following output? (Select all that apply.)
→ **d) both a and b**
17. Which of the following lines of code will create an empty dictionary named captains?
→ **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?
→ **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?
```

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

20. What statement will remove the entry for the key "Discovery"?

➔ **c) del captains["Discovery"]**