PFA₁

Batch- DS2039

Internship ID-61

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: b) 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))

Answer: d) Error

Answer: d) except

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: c) 208

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

Answer: a) strptime

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?
 - A. Del function
 - B. Show function
 - C. Lambda function
 - D. None of the mentioned above

Answer: d) None of the mentioned above

12. The module Pickle is used to ____.

- A. Serializing Python object structure
- B. De-serializing Python object structure
- C. Both A and B
- D. None of the mentioned above

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 ____.
 - A. Alphabets
 - B. Numbers
 - C. Special symbols
 - D. All of the mentioned above

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
      a) for ship, captain in captains.items():
             print(ship, captain)
      b) for ship in captains:
             print(ship, captains[ship])
      c) for ship in captains:
            print(ship, captains)
      d) both a and b
Answer: d) both a and b
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: 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?

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"]