

PFA File-1

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

Answer : 208

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

Answer : strftime

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: 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 & 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 : 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?

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"]