

### Question 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**

### Question 2.

```
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: b) Filter**

### Question 3

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

**Ans: a) Tuple**

### Question 4.

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

**Ans: d) Error**

### Question 5.

What keyword is used in Python to raise exceptions?

**Ans: a) raise**

**Question 6.**

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

**Ans: c) datetime**

**Question 7.**

What will be the output of the following code snippet?

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

**Ans: c) 208**

**Question 8.**

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

**Ans: a) strptime**

**Question 9.**

The python tuple is \_\_\_\_\_ in nature.

**Ans: b)immutable**

**Question 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()**

**Question 11**

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

**Ans: C. Lambda function**

## Question 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

**Ans: C) Both A and B**

## Question 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**

## Question 14

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

**Ans: A. load()**

## Question 15

A text file contains only textual information consisting of \_\_\_\_.

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

**Ans: D. All of the mentioned above**

## Question 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

**Ans: d) both a and b**

## Question 17

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

a) `captains = {dict}`

b) `type(captains)`

c) `captains.dict()`

d) `captains = {}`

**Ans: d) captains = {}**

## Question 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: b) `captains["Enterprise"] = "Picard"` `captains["Voyager"] = "Janeway"`  
`captains["Defiant"] = "Sisko"`**

### Question 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}.")**

### Question 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"]`**