

Q.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))
```

- a) 10
- b) 20
- c) 15
- d) 0

Ans1 - c)15

Q.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))
```

- a) Int
- b) Filter
- c) List
- d) Tuple

Ans2 – b)Filter

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

- a) Tuple
- b) List
- c) Dictionary
- d) none

Ans3 – a)Tuple

Q.4)

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

- a) 105
- b) 270
- c) 0
- d) Error

Ans4 – d)Error

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

- a) raise
- b) try
- c) goto
- d) except

Ans5 – a)raise

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

- a) timedata
- b) date
- c) datetime
- d) time

Ans6 – c)datetime

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

Print(43 + (7 + 5)**(1 + 1))**

- a) 248
- b) 169
- c) 208
- d) 233

Ans7 – c)208

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

- a) strptime
- b) strftime
- c) both a) and b)
- d) None

Ans8- c) both a) and b)

Q.9) The python tuple is _____ in nature.

- a) mutable
- b) immutable
- c) unchangeable
- d) none

Ans9 – b) immutable

Q.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()
- B. set()
- C. dictionary{}
- D. None of the mentioned above

Ans10 – a) range()

Q.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

Ans 11– 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

Ans12 – 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?

- A. set() method
- B. dump() method
- C. load() method
- D. None of the mentioned above

Ans13 – b)dump() method

Q.14

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

- A. load()
- B. set() method
- C. dump() method
- D. None of the mentioned above

Ans14- A) load()

Q15.

A text file contains only textual information consisting of ____.

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

Ans15 - D) All of the mentioned above

Q16)

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

Ans16 - d) both a and b

Q17)

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 17- d) captains = {}

Q18) 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?

a) captains {"Enterprise" = "Picard"}
captains {"Voyager" = "Janeway"}
captains {"Defiant" = "Sisko"}

b) captains["Enterprise"] = "Picard"
captains["Voyager"] = "Janeway"
captains["Defiant"] = "Sisko"

c) captains = {
"Enterprise": "Picard",
"Voyager": "Janeway",
"Defiant": "Sisko",
}

d) None of the above

Ans18 – b & c both

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?

- a) 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

***Ans19- 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"?

- a) del captains
- b) captains.remove()
- c) del captains["Discovery"]
- d) captains["Discovery"].pop()

Ans20- c) del captains["Discovery"]