**MCQ**

**Note: Answers are marked in Bold**

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. 10
  2. 20
  3. **15**
  4. 0

1. 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))

* 1. Int
  2. **Filter**
  3. List
  4. Tuple

1. As what datatype are the \*args stored, when passed into
   1. Tuple----- when \*args passed into Tuples 🡪 **stored as a Tuple**
   2. List----- when \*args passed into List 🡪 **stored as a List**
   3. Dictionary----- when \*args passed into Dictonary 🡪 **stored as a Tuple of Key:Value Pair**
   4. none
2. set1 = {14, 3, 55}

set2 = {82, 49, 62} set3={99,22,17}

print(len(set1 + set2 + set3))

* 1. 105
  2. 270
  3. 0
  4. **Error**

1. What keyword is used in Python to raise exceptions?
   1. **raise**
   2. try
   3. goto
   4. except
2. Which of the following modules need to be imported to handle date time computations in Python?
   1. timedate
   2. date
   3. **datetime**
   4. time
3. What will be the output of the following code snippet?

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

* 1. 248
  2. 169
  3. **208**
  4. 233

1. Which of the following functions converts date to corresponding time in Python?
   1. strptime
   2. strftime
   3. **both a) and b)**
   4. None
2. The python tuple is in nature.
   1. mutable **b)immutable**
3. unchangeable
4. none
5. ​

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.

1. **range()**
2. set()
3. dictionary{}
4. None of the mentioned above

**Question 11**

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

1. Del function
2. Show function
3. **Lambda function**
4. None of the mentioned above

Question 12

**The module Pickle is used to .**

1. Serializing Python object structure
2. De-serializing Python object structure
3. **Both A and B**
4. None of the mentioned above

Question 13

**Amongst which of the following is / are the method of convert Python objects for writing data in a binary file?**

1. set() method
2. **dump() method**
3. load() method
4. None of the mentioned above

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

1. **load()**
2. set() method
3. dump() method
4. None of the mentioned above

15.

**A text file contains only textual information consisting of .**

1. Alphabets
2. Numbers
3. Special symbols
4. **All of the mentioned above**

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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

* 1. for ship, captain in captains.items(): print(ship, captain)
  2. for ship in captains: print(ship, captains[ship])
  3. for ship in captains:

print(ship, captains)

* 1. **both a and b**

**17)**

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

1. captains = {dict}
2. type(captains)
3. captains.dict()
4. **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?

1. captains{"Enterprise" = "Picard"} captains{"Voyager" = "Janeway"} captains{"Defiant" = "Sisko"}
2. **captains["Enterprise"] = "Picard" captains["Voyager"] = "Janeway" captains["Defiant"] = "Sisko"**
3. captains = { "Enterprise": "Picard", "Voyager": "Janeway", "Defiant": "Sisko",

}

1. None of the above
2. **)** 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?

* 1. for item in captains.items():

print(f"The [ship] is captained by [captain].")

* 1. **for ship, captain in captains.items(): print(f"The {ship} is captained by {captain}.")**
  2. for captain, ship in captains.items(): print(f"The {ship} is captained by {captain}.")
  3. All are correct

1. **)**

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"?

* 1. del captains
  2. captains.remove()
  3. **del captains["Discovery"]**
  4. captains["Discovery"].pop()