**MCQ**

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~~**

**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~~**

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

a) Tuple

~~b) List~~

~~c) Dictionary~~

~~d) none~~

**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**

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

a) raise

~~b) try~~

~~c) goto~~

~~d) except~~

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

~~a) timedate~~

~~b) date~~

c) datetime

~~d) time~~

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

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

**~~a) 248~~**

**~~b) 169~~**

**c) 208**

**~~d) 233~~**

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

~~a) strptime~~

b) strftime

~~c) both a) and b)~~

~~d) None~~

**9)** The python tuple is \_\_\_\_\_ in nature.

~~a) mutable~~

b)immutable

~~c)unchangeable~~

~~d) none~~

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~~

**Question 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~~

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~~

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~~

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~~

15.

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

~~A. Alphabets~~

~~B. Numbers~~

~~C. Special symbols~~

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

**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 = {}

**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?

~~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~~

**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~~

**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()