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**

Answer : (C) 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))

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

Answer : (b) Filter

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

into

a) Tuple

b) **List**

c) **Dictionary**

d) **none**

Answer : (a) Tuple

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**

Answer : (d) Error

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

a) raise

b) **try**

c) **goto**

d) **except**

Answer : (a) Raise

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**

Answer : (c) Datetime

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**

Answer : (c) 208

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

a) strptime

b) **strftime**

c) **both a) and b)**

d) **None**

Answer : (a) Strptime

9) The python tuple is _____ in nature.

a) mutable

b)immutable

c)unchangeable

d) none

Answer : (b) 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.

A. **range()**
B. **set()**
C. **dictionary{}**
D. **None of the mentioned above**

Answer : (a) range()

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**

Answer : (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**

Answer : (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**

Answer : (B) Dump() method

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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**

Answer : (a) load() method

15.

A text file contains only textual information consisting of ___.

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

Answer : (D) 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

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**

Answer : (d) both a and b

17)

Which of the following lines of code will create an empty dictionary captains named ? a) captains = {dict}

b) **type(captains)**
c) **captains.dict()**
d) **captains = {}**

Answer : (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**

Answer : (c) captains = {

"Enterprise": "Picard",

"Voyager": "Janeway",

"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?

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**

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 `"Discovery"` key ?

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

Answer : (c) del captains[“Discovery”]