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**

Ans : C

```
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**

Ans: C

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

a) Tuple

b) List

c) Dictionary

d) None

Ans: A

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**

Ans: D

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

a) raise

b) try

c) goto

d) except

Ans: A

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

Ans: C

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

Ans: C

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

a) strptime

b) strftime

c) both a) and b)

d) None

Ans: D

9) The python tuple is_____in nature.

a) mutable

b)immutable

c)unchangeable

d) none

Ans**: B**

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

Ans: **A**

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

Ans: C

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

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

Ans: **B**

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

Ans: **A**

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**

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**

17)

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

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

Ans: **E**

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

Ans: **B**

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

Ans: **B**

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()\

Ans: **C**