MCQ

Question 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: OPTION (C) 15

Question 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: OPTION (B) Filter

Question 3

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

a) Tuple

b) List

c) Dictionary

d) None

ANSWER: OPTION (A) Tuple

Question 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: OPTION (D) ERROR

Question 5

What keyword is used in Python to raise exceptions?

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

ANSWER: OPTION (A) raise

Question 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: OPTION (C) datetime

Question 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

ANSWER: OPTION (C) 208

Question 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: OPTION (D) None

Question 9

The python tuple is _____in nature.

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

ANSWER: OPTION (B) Immutable

Question 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: OPTION (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: OPTION (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: OPTION (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: OPTION (B) dump () method

Question 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.

ANSWER: OPTION (A) load ()

Question 15

A text file contains only textual information consisting of ____.

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

ANSWER: OPTION (D) All of the mentioned above

Question 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

ANSWER: OPTION (D) both a and b

Question 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 = {}`

ANSWER: OPTION (D) captains= {}

Question 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: OPTION (B)
captains["Enterprise"] ="Picard"
captains["Voyager"] = "Janeway"
captains["Defiant"] = "Sisko"

Question 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: OPTION (B)

for ship, captain in captains.items():
print(f"The {ship} is captained by {captain}.")

Question 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 ()

ANSWER: OPTION (C) del captains[“Discovery”]