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) 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

Ans :- b) Filter

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

a) Tuple

b) List

c) Dictionary

d) none

Ans :- 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

Ans :- d) Error

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

a) raise

b) try

c) goto

d) except

Ans :- 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

Ans :- c) datetime

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

Ans :- 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

Ans :- a) strptime

9) The python tuple is _____ in nature.

a) mutable

b) immutable

c) unchangeable

d) none

Ans :- 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

Ans :- a) range()

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 :- d) None of the mentioned above

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) Both A and B

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) dump() method

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) load()

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) 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

Ans :- 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 = {}

Ans :- 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

Ans :- 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 captions.items():
       print(f"The [ship] is captained by [captain].")

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

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

d) All are correct

Ans :- b) for ship, captain in captions.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 key "Discovery"?

a) del captains

b) captains.remove()

c) del captains["Discovery"]

d) captains["Discovery"].pop()

Ans :- c) del captains["Discovery"]