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: 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: b) Filter

Question 3:

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

- a) Tuple
- b) List
- c) Dictionary
- d) none

Answer: a) Tuples

Question 4:

c) 0

```
set1 = {14, 3, 55}
set2 = {82, 49, 62}
set3={99,22,17}
print(len(set1 + set2 + set3))
    a) 105
    b) 270
```

d) Error

Answer: d) Error

Question 5:

What keyword is used in Python to raise exceptions?

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

Answer: 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: 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: 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: a) strptime()

Question 9:

The python tuple is _____ in nature.

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

Answer: b) immutable and c) unchangeable

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: 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

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: a) load()

Question 15:

A text file contains only textual information consisting of ____.

- a) Alphabets
- b) Numbers
- c) Special symbols
- d) All of the mentioned above

Answer: a) Alphabets

Question 16:

Which Python code could replace the ellipsis (...) below to get the following output? (Select all that apply.) captains = {

```
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

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: 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

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: d) All are correct

Question 19:

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: d) del captains["Discovery"]