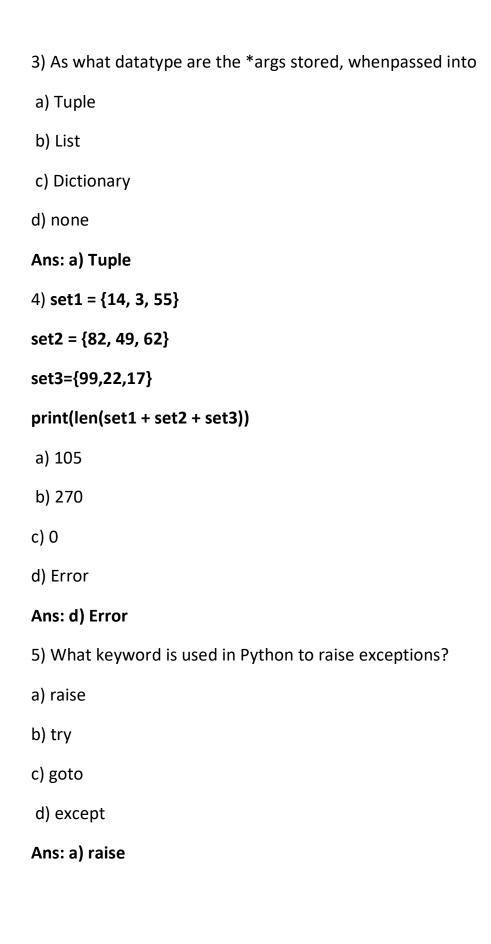
# MCQ 1

```
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
```



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()
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. 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

Ans: 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

## 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: A. Alphabets
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: 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: 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: b) captains["Enterprise"] = "Picard"

```
captains["Voyager"] = "Janeway"
captains["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) d) All are correct

Ans: a) for item 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 key "Discovery"?
a) del captains
b) captains.remove()
c) del captains["Discovery"]
d) captains["Discovery"].pop()
```

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