

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

Solution: 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

Solution: b) Filter

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

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

Solution: 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**

Solution: d)Error

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

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

Solution: a)raise

6) Which of the following modules need to be imported to handle date time computations inPython?

- a) timedata
- b) date
- c) datetime
- d) time

Solution: c)datetime

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**

Solution: 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

Solution:a)strptime

9) The python tuple is ____in nature.

- a) mutable
- b)immutabl
- e
- c)unchangeable
- d) none

Solution:b)immutable

10) 10)

The___is a built-in function that returns a range object that consists series of integer numbers, whichwe can iterate using a for loop.

- A. range()
- B. set()
- C. dictionary{ }
- D. None of the mentioned above

Solution: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

Solution: 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

Solution: c) Both A and B

Question 13

Amongst which of the following is / are the method of convert Python objects for writing data ina binary file?

- A. set() method
- B. dump() method
- C. load() method
- D. None of the mentioned above

Solution: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

Solution: b) Set() method

15.

A text file contains only textual information consisting of ____.

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

Solution: 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

Solution: 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 = {}`

Solution: 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

Solution: option B and C

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

Solution: b) for ship, captain 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()

Solution: c) del captains["Discovery"]

