

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

ANSWER:- 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

ANSWER:-b) Filter

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

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

ANSWER:-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

ANSWER:- d) Error

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

a) raise

b) try

c) goto

d) except

ANSWER:- 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`

ANSWER:- 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

ANSWER:-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

ANSWER:- a) strptime

(9) The python tuple is _____ in nature.

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

ANSWER:-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

ANSWER:- 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

ANSWER:- c) Lambda function

(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

(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

(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()

(15) A text file contains only textual information consisting of ____.

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

ANSWER:- 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

ANSWER:- 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 = {}

ANSWER:- 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

ANSWER:-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 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:-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()

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