

## 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))
```

Ans: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))
```

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) time b) date c) datetime d) time

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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: immutable and unchangeable

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: C) Lambda function

12) The module Pickle is used to \_\_\_\_.

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- A. Serializing Python object structure B. De-serializing Python object structure C. Both A and B  
D. None of the mentioned above

Ans: 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: 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: 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: 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])`

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- 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",
```

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```
"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

Ans: 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()

Ans: c)

```
del captains["Discovery"]
```

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