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Github link : <https://github.com/Vivekchauhan-web/Internship.git>

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

Explanation: Here the problem is based on recursive function of finding GCD of two number .call the function recursively till the value of a becomes 0 and at that time the value of b is 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: Filter

Explanation: sorted() method sort the element of any iterable object passed into it .Here lambda function is operated on element of tuple object and return even number .filter () is a method that will filter out the element by applying lambda function to each individual element. Here even_number variable will hold filter type object. To display the element in the form of list and tuple we need to use print(tuple(even-numbers))

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

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

Answer : b) List

Explanation :*args is non keyword argument and store argument in the form of list.

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 (+ operator is not applicable for sets as sets are unique and unordered collection)

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) timedata
- 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) - parenthesis part will evaluate first and then exponential operator will work.

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 : d) None

Explanation : if the date is in string format then we will use the above method to convert date to corresponding time .

9) The python tuple is _____ in nature.

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

Answer: b) immutable

Explanation: Tuple is data type in python that is once created cannot be change.

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() method

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 : D : All of the mentioned above

Question 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",
```

```
}
```

```
    ard,
```

```
    aneway
```

```
    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 = { }

Answers :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

19) You're really building out the Federation Starfleet now! Here's what you have:

```
{}

```

```
{}

```

```
{}

```

```
{}

```

```
{}

```

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) is correct .

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:

```
        y",
```

```
"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"]