GATE

CRASH COURSE GATE2025

DS&AI

Python for Data Science

Strings and Lists

Q1 The output of below code is _____

```
l1 = [10,20,30,40,50]
l2 = [15,25,35,45,55]
result = 0
for i in l1:
    for j in l2:
        result=result+j-i
print(result)
```

Q2 The final count value will be _____

```
myList=[11,22,33,44,55,66]
newList=[item for item in myList if item%2==0]
count=1
for  i in range(len(newList)):
    count+=newList[i]
```

Q3 The total number of times print statement executed is _____

```
a = [10,20,[30,40,50],60,70]
b = (5,10,15,(20,25,30,(35,40,45,50),55,60),70)
c = a[2][1]
d = b[3][3][3]
i = 1
for j in (c,1,c//4):
    for k in (d,1,c//5):
        print(i)
```

(A) 6   (B) 8
(C) 9   (D) 10

Q4 The final value of ans will be _____

```
i = {10,20,30,40,50}
j = [11,22,33,44,55]
k = [22,33,44,11,55]
l = {30,20,40,10,50}
x = i == l
y = j != k
```

```
print(x,y)
```

(A) False, False   (B) True, False
(C) False, True   (D) True, True

Q5 What will be the output of the below code?

```
def f():
    x = [1, 2, 3, 4, 5, 6, 7, 8]
    for i in range(2, 6):
        x[x[i]] = x[i]
    for i in range(8):
        print(x[i], end='')
f()
```

(A) 1 2 3 3 5 5 7 8
(B) 1 2 3 4 5 6 7 8
(C) 8 7 6 5 4 3 2 1
(D) 1 2 3 5 4 6 7 8

Q6 The output of below code is _____

```
My_list = [1, 2, 3, 4, 5, 6, 7, 8, 9]
new_list = My_list[1:8:2]
print(new_list)
```

(A) 1 3 5 7 9
(B) 2 4 6 8
(C) 2 4 6
(D) 1 3 5 7

Q7 What is printed by below Python Code Segment?

```
My_list = [1, 2, 3, 4, 5, 6, 7, 8]
new_list = My_list[::-3]
print(new_list)
```

(A) [8,7,6]   (B) [8,6,4,2]
(C) [8,5,2]   (D) [8,7,6,5,4]

Q8 The final count value printed by below code is _____

```
a = [[0,1,2,3],[4,5,6,7],[2,3,4,0],[1,4,6,7]]
count=0
```

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```
for i in range(1,4):
    for j in range(2,4):
        count+=a[j][i]
print(count)
```

(A) 24   (B) 28

(C) 48   (D) 55

Q9 What is printed by below Python Code Segment?

```
My_list = [1, 2, 3, 4, 5, 6, 7, 8]
new_list1 = My_list[::-3]
new_list2 = My_list[3::]
new_list3= new_list1.extend(new_list2)
print(new_list3)
```

(A) [8, 5, 2, 4, 5, 6, 7, 8]

(B) [4, 5, 6, 7, 8]

(C) [8, 7, 6, 5, 4, 2, 5, 8]

(D) None

Q10 Identify Correct Statement(s) from below:

(A) Tuples are UnOrdered Mutable Collection, Does not allow Duplicate Elements

(B) Lists are Ordered Mutable Collection, Allow Duplicate Elements

(C) Sets are UnOrdered Immutable Collection, Does not allow Duplicate Elements

(D) Dictionaries UnOrdered mutable Collection, Allow Duplicate Elements

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Answer Key

Q1	125		**Q6**	(B)
Q2	133		**Q7**	(C)
Q3	(C)		**Q8**	(A)
Q4	(D)		**Q9**	(D)
Q5	(A)		**Q10**	(B, C)

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Hints & Solutions

Q1 Text Solution:

125

Q2 Text Solution:

133

Q3 Text Solution:

C

Q4 Text Solution:

D

Q5 Text Solution:

A

Q6 Text Solution:

B

Q7 Text Solution:

C

Q8 Text Solution:

A

Q9 Text Solution:

D

Q10 Text Solution:

B&C

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