CRASH COUSRE GATE 2025

DS &AI

Python for Data Science

Fundamentals of Python

Q1 Output will be _____
```
a = [1,0,3]
print(all(a))
print(any(a))
```
(A) True, False   (B) False, False
(C) True, True   (D) False, True

Q2 What will be the output of below code?
```
a = 0o32
print(a,oct(a),hex(a))
```
(A) 26 32 0x1a   (B) 26 0o32 0x1a
(C) 26 0o32 1a   (D) 0o26 32 0x1a

Q3 What will be the value of result in the below code?
```
x = 0b01010110
y = 0x123
z = 42
result = x + y - z
```
(A) 517 in octal
(B) 517 in decimal
(C) 1f4 in hexa decimal
(D) 335 in in decimal

Q4 The output will be _____
```
i = True
j = 'T'

k = 'True'
print(type(i),type(j),type(k))
```
(A) <class 'bool'> <class 'char'> <class 'bool'>
(B) <class 'bool'> <class 'char'> <class 'str'>
(C) <class 'bool'> <class 'str'> <class 'str'>
(D) <class 'str'> <class 'str'> <class 'bool'>

Q5 What will be printed by below code?
```
x = 0 x 47
```
```
print(x,oct(x),hex(x))
```
(A) 71 0o107 0 x 47
(B) 71 0o107 0 x 47
(C) 71 0o107 47
(D) 71 107 0 x 47

Q6 The output is _____.
```
EXAM="GATE"
Marks=100
Questions=65
print(ord(EXAM[3]),chr(Marks),chr(Questions))
```
(A) 69 c A   (B) 68 c A
(C) 69 d A   (D) 68 d A

Q7 The result printed is _____
```
a = 'GATE'
b = [2,0,2,5]
c = (65, 'Questions','100 Marks')
d = {'IIT','Roorkee'}
e = {'Apti':15,'Maths':35,'Tech':50}
result = len(e)+len(c[2])+len(b)+len(d)
print(result)
```

Q8 The output printed by below Python code segment is _____
```
i = 75
j = 0o62
k = 0x189
print(hex(j), end=',')
print(oct(i), end=',')
print(k)
```
(A) 62,75,189
(B) 0o113, 0x32, 0x189
(C) 0x32, 0o113, 393
(D) 0x32, 0o113, 0x189

Q9 Identify Incorrect Statement(s) from below:

(A) Tuples are Ordered Mutable Collection

(B) Lists are Unordered Mutable Collection

(C) Sets are Ordered Immutable Collection

(D) Dictionaries are Ordered mutable Collection

Q10 The total number of tokens in the below python code segment is _____.

```
print(a,type(b),len(c),'END')
```

Answer Key

Q1	(D)		**Q6**	(C)
Q2	(B)		**Q7**	18
Q3	(A, D)		**Q8**	(C)
Q4	(C)		**Q9**	(A, B, C)
Q5	(A)		**Q10**	16

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Hints & Solutions

Q1 Text Solution:

D

Q2 Text Solution:

B

Q3 Text Solution:

AD

Q4 Text Solution:

C

Q5 Text Solution:

A

Q6 Text Solution:

C

Q7 Text Solution:

19

Q8 Text Solution:

c

Q9 Text Solution:

abc

Q10 Text Solution:

16

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