CRASH COURSE GATE 2025

DS&AI

Python for Data Science

Control Statements in Python

Q1 The output of below Python Code Segment is
_____

```
a,b=1,3
for i in range(a,b):
    for j in range(b,a,-1):
        print(i+j, end=' ')
```

(A) 4,3,5   (B) 4,5,3,4
(C) 4,3,5,4   (D) 4,5,3

Q2 The final value of result is _____

```
result=1
for x in range(result,4,2):
    result+=1
    for y in range(result):
        result+=2
print(result)
```

Q3 What is printed by below Python Code Segment?

```
for i in range(5,2,-1):
    i=10
    for j in range(1,3):
        i=i+j
print(i)
```

(A) 12   (B) 13
(C) 15   (D) 16

Q4 What will be final ans value from the below
code?

```
a=1
b=4
ans=1
while a<4:
    ans=ans+a
    while b>1:
        if b<=2:
            break
```

```
        ans=ans+b+a
        b=b-1
    a=a+2
print(ans)
```

Q5 The total number of times print statement is
executed is _____

```
for i in range(7,8):
    for j in range(6,7):
        print(i*j)
```

(A) 1   (B) 2
(C) 3   (D) 4

Q6 The output of below code is _____

```
i=print('GATE',end='')
while i:
    print(i,end=',')
    i=i-1
```

(A) Error   (B) GATE 4,3,2,1
(C) GATE 4,3,2   (D) GATE

Q7 What will be the output of below Python Code
Segment?

```
for i in range(1,10,2):
    if i%3 ==0:
        print(i+2,end=' ')
        continue
    elif i%5==0:
        print(i-1,end=' ')
        break
    else:
        print(i+1,end=' ')
```

(A) 2, 5   (B) 1, 4, 3
(C) 2, 5, 4   (D) 2, 5

Q8 The value of 'i' printed by below code is _____--

```
i=5
```

```
for j in range(5):
    match j:
        case 2: i=i+2
        case 4: i=i-1
        case 5: i=i+1
        case 3: i=i-2
        case 1: i=i+i
print(i)
```

Q9 The output printed is _____

```
x=5
y=0
i=x+6
j=i-2
while x>=0:
    i=i+x
    while y<=4:
```

```
        j=j-y;
        y=y+1
    x=x-2
print(i+x-j+y)
```

Q10 What is printed by below C code is _____

```
i='A'
match i:
    case 'A':
        print("ABC",end=",")
        print("A",end=';')
    case 'A': print("ABC",end=';')
    case 65:print('65')
```

(A) ABC,65

(B) ABC,A,

(C) ABC,A,ABC,65

(D) Error, Duplicate cases are Not allowed

Answer Key

Q1	(C)		Q6	(D)
Q2	21		Q7	(C)
Q3	(B)		Q8	9
Q4	14		Q9	25
Q5	(A)		Q10	(B)

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Hints & Solutions

Q1 Text Solution:

C

Q2 Text Solution:

21

Q3 Text Solution:

B

Q4 Text Solution:

14

Q5 Text Solution:

A

Q6 Text Solution:

D

Q7 Text Solution:

C

Q8 Text Solution:

9

Q9 Text Solution:

25

Q10 Text Solution:

B

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