Python Lists

Standard difficulty · 20 questions · 40 marks · Time: 40 minutes

Name: _____ Date: _____ Score: ____ / 40

Show your working for Sections B and C. Answers are on the last page — try every question first!

Section A — Choose the correct answer — 8 × 1 = 8 marks

1. The first item of a Python list has index:

(a) −1 **(b)** it has no index

(c) 1 **(d)** 0

2. What does this print?

```
a = [78, 81, 73, 55, 75, 72]
print(a[4])
```

(a) 55 **(b)** 72 **(c)** 75 **(d)** 4

3. What does this print?

```
a = [16, 38, 14, 59, 3]
print(a[-4])
```

(a) 59 **(b)** 3 **(c)** 38 **(d)** 16

4. What does this print?

```
a = [46, 47, 50, 97, 67, 83, 11]
print(a[2:4])
```

(a) [97] **(b)** [50, 97] **(c)** [47, 50, 97] **(d)** [97, 50]

5. What does this print?

```
a = [41, 5, 49, 48, 61, 29, 7]
a.pop()
a.pop()
a.pop()
print(len(a))
```

(a) 4 **(b)** 5 **(c)** 7 **(d)** 3

6. What does this print?

```
names = ['Zoya', 'Dev', 'Vikram', 'Ananya']
names.remove('Dev')
names.append('Asha')
names.pop(1)
print(names)
```

(a) ['Zoya', 'Vikram', 'Asha'] **(b)** ['Zoya', 'Ananya', 'Asha']

(c) ['Zoya', 'Vikram', 'Ananya', 'Asha'] **(d)** ['Asha', 'Ananya', 'Zoya']

7. What does this print?

```
a = [31, 17, 60, 62, 34, 37]
a.pop()
a.insert(4, 71)
print(min(a))
```

(a) 17 **(b)** 6 **(c)** 18 **(d)** 16

8. What does this print?

```
a = [39, 36, 3, 6, 21]
a.sort()
print(a[4])
```

(a) 39 **(b)** 21 **(c)** 3 **(d)** 36

Section B — Short answer — 8 × 2 = 16 marks

9. What is a list in Python? Give an example.

10. For a = [27, 35, 90, 64, 61, 67, 65], what are (a) a[6] (b) a[-4]?

11. For a = [86, 6, 39, 42, 60, 14, 58, 90], write the items of a[2:7], separated by commas.

12. What is in a at the end? Write the items separated by commas.

```
a = [56, 63, 10, 36, 65]
a.insert(1, 13)
a.pop()
a.pop()
```

13. How many items does a have at the end?

```
a = [2, 59, 12, 27, 33]
a.append(80)
a.append(97)
a.insert(6, 86)
a.insert(0, 20)
```

14. What does this print?

```
a = [87, 76, 75, 64, 90, 94, 19]
print(a.index(90))
```

15. What is in a after this runs? Write the items separated by commas.

```
a = [4, 8, 12, 16, 20]
for i in range(len(a)):
    a[i] = a[i] + 2
```

16. What is in names at the end? Write the names separated by commas.

```
names = ['Dev', 'Meera', 'Rahul', 'Ananya', 'Priya']
names.remove('Dev')
names.append('Arjun')
names.pop(1)
```

Section C — Word problems — 4 × 4 = 16 marks

17. Create a list of children selected for a quiz, then delete one name, add one at the end and remove the item at the second position. Explain each step.

18. num = [19, 77, 41, 66, 54, 51]. What is printed by (a) print(len(num)) (b) print(num[1:4]) (c) print(num[-4:-1])? For (b) and (c), write the items separated by commas.

19. What is printed?

```
list1 = [19, 43, 22, 34]
list1.extend([10, 16, 37])
list1.sort()
print(list1)
print(len(list1))
print(list1[0] + list1[-1])
```

Give (a) the items of the list, separated by commas (b) the length (c) the last line.

20. What is printed?

```
marks = [36, 74, 75, 33, 95]
print(sum(marks))
print(max(marks))
count = 0
for m in marks:
    if m >= 60:
        count = count + 1
print(count)
```

Give (a) to (c) in order.

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Answer key

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Q	Answer	Working
1	**(d) 0**	—
2	**(c) 75**	indexes start at 0: a[4] is item 5
3	**(c) 38**	a[-4] counts 4 from the end
4	**(b) [50, 97]**	from index 2 up to, not including, 4
5	**(a) 4**	append and insert add one item; remove and pop take one away
6	**(b) ['Zoya', 'Ananya', 'Asha']**	after remove and append: ['Zoya', 'Vikram', 'Ananya', 'Asha']; pop(1) removes index 1
7	**(a) 17**	a is now [31, 17, 60, 62, 71, 34]
8	**(a) 39**	sorted: [3, 6, 21, 36, 39]
9	**An ordered collection of items in square brackets, e.g. marks = [78, 92, 65].**	—
10	**(a) 65; (b) 64**	indexes start at 0; negative indexes count from the end
11	**39, 42, 60, 14, 58**	indexes 2 to 6
12	**56, 13, 63, 10**	carry out each line in turn
13	**9**	a ends as [20, 2, 59, 12, 27, 33, 80, 86, 97]
14	**4**	90 is item 5, so its index is 4
15	**6, 10, 14, 18, 22**	add 2 to each item
16	**Meera, Ananya, Priya, Arjun**	pop(1) removes the item at index 1
17	**q = ["Arjun", "Isha", "Kabir", "Meera"]; q.remove("Kabir"); q.append("Jay"); q.pop(1) removes the item at index 1; print(q).**	—
18	**(a) 6; (b) 77, 41, 66; (c) 41, 66, 54**	num[1:4] is the 2nd to 4th items; num[-4:-1] is the 3rd to 5th
19	**(a) 10, 16, 19, 22, 34, 37, 43; (b) 7; (c) 53**	extend adds every item; sort puts them in order
20	**(a) 313; (b) 95; (c) 3**	marks at least 60: 74, 75, 95

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