Python Practice Test (30 Questions)

Covers: String Functions, List Functions, if-elif-else, while, for loops

Note: No functions used, only code snippets and logic-based questions.

Part A - String Functions (10 Questions)

1. What will be the output of:

```
text = "PYTHON"
print(text.lower())
```

2. Write code to remove extra spaces from:

```
name = "  Hello World  "
```

3. Count how many times 'a' appears in:

```
fruit = "banana"
```

4. Replace "dog" with "cat" in:

```
sentence = "I have a dog"
```

5. Split this string into a list of words:

```
msg = "Python is fun"
```

6. Find the index of 'i' in:

```
text = "machine"
```

7. Check if string starts with 'Good':

```
greeting = "Good Morning"
```

8. Convert the following to uppercase:

```
word = "hello"
```

9. Check if this string is all digits:

```
number = "12345"
```

10. Join list items using '_':

```
items = ['data', 'science']
```

Part B - List Functions (12 Questions)

11. Add 10 to the end of this list:

I = [1, 2, 3]

12. Insert 99 at index 1:

I = [5, 6, 7]

13. Sort the list in ascending order:

I = [9, 1, 3, 8]

14. Remove the value 20 from this list:

I = [10, 20, 30, 40]

15. Pop the last element from the list:

I = [1, 2, 3, 4]

16. Merge two lists:

a = [1, 2], b = [3, 4]

17. Count how many times 2 appears:

nums = [2, 4, 2, 2, 6]

18. Find the total sum of:

I = [5, 10, 15]

19. Find the largest number:

marks = [44, 72, 91, 60]

20. Find the smallest number:

nums = [20, 18, 5, 34]

21. Clear the entire list:

I = [8, 9, 10]

22. Copy this list to a new list:

original = [1, 2, 3]

Part C - Control Statements (8 Questions)

23. Write a program to check if a number is even or odd.

24. Use if-elif-else to check whether a number is positive, negative, or zero.

25. Write a for loop to print numbers from 1 to 10.

26. Print the multiplication table of 5 using a for loop.

27. Use a while loop to print numbers from 10 down to 1.

28. Write code to calculate the sum of digits of a number using a while loop.

29. Count the number of vowels in a given string using for and if.

30. Check if the string "madam" is a palindrome using indexing and if.