Python Engineering – Basic Question Paper

Time: 60 Minutes

Total Questions: 15

All questions are compulsory.

Section A: Programming Questions

1. Write a Python program to count the number of vowels in a given word.

2. Write a Python program to find the maximum number in a given list.

3. Write a Python program to find the minimum number in a given list.

4. Write a Python program to add elements of two lists index-wise.
   Input:
   lst1 = [1, 2, 3]
   lst2 = [4, 5, 6]
   Output:
   [5, 7, 9]

5. Write a Python program to count the number of special characters in a given string.

6. Write a Python program to remove duplicate elements from a list.

7. Write a Python program to calculate the factorial of a given number using a loop.

8. Write a Python program to count the frequency of each element in a list.

9. Write a Python program to check whether a given number is prime.

10. Write a Python program to find the common elements between two lists.

11. Write a Python program to remove duplicate elements from a list without using set().

Section B: Theory Questions

12. Explain the difference between 'is' and '==' in Python.

13. What are the key features of Python?

14. What is PEP 8? Explain its importance.

15. Explain how Python handles lists and strings. Mention at least two differences.

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