General Questions:

1. **What is the Java Collections Framework?**

   o Can you explain what it is and why it's used?

2. **What are the main interfaces of the Java Collections Framework?**

   o Name some of the core interfaces and their purposes.

3. **What is the difference between Collection and Collections?**

   o Explain the difference between these two terms.

4. **What are the differences between List, Set, and Map?**

   o Provide key distinctions and use cases for each.

List Interface:

5. **What is a List in Java and how does it differ from an array?**

   o Explain the characteristics of a List and how it compares to a standard array.

6. **What are the different implementations of the List interface?**

   o Describe ArrayList, LinkedList, and Vector, highlighting their differences.

Set Interface:

7. **What is a Set in Java and how is it different from a List?**

   o Explain the properties of a Set and how it compares to a List.

8. **What are the different implementations of the Set interface?**

   o Describe HashSet, LinkedHashSet, and TreeSet, mentioning their unique features.

Map Interface:

9. **What is a Map in Java and how does it work?**

   o Explain the concept of key-value pairs in a Map.

10. **What are the different implementations of the Map interface?**

    o Describe HashMap, LinkedHashMap, and TreeMap, noting their differences.

Additional Concepts:

11. **What is the difference between ArrayList and LinkedList?**

    o Discuss their internal implementations and performance differences.

12. **How does a TreeSet maintain order?**

    o Describe the sorting mechanism of a TreeSet.

13. **What is the difference between HashMap and Hashtable?**