DS IMPORTATENT QUESTIONS

1. What is time complexity and space complexity of all sorting and searching algorithms?

2. Explain Applications of linked lists?

3. Explain Applications of stacks in expression evaluation?

4. Explain backtracking, reversing list?

5. Explain Applications of queues?

6. Explain Operations on deques and their Applications?

7. What is tree? Explain?

8. What is Hash Function?

9. What is hash Table?

10. Definition and importance of linear data structures?

11. Comparing arrays and linked lists?

**Essay Questions**

1. Explain Different typed of sorting algorithms with examples?

1. Bubble sort

2. Selection sort

3. Insertion sort

2. Explain Linear Search And Binary Search?

3. Explain single, Double, Circular Linked Lists Operations and Examples?

4. What is Stack? Explain different Operations?

5. Explain Stack Using array?

6. What is Queue? Explain different Operations? Using arrays and Linked lists?

7. Explain Operations on deques?

8. What is Binary tree? Explain with example?

9. Explain Collision resolution techniques?

10. What is Hash Table? Explain different Operations?

11.Applications of Hashing in unique identifier generation and caching?