CLASS ASSIGNMENT -1

DATE OF GIVEN- 14/02/2026　　　　　　　**DATE OF SUBMISSION- 19/02/2026**

Instructions for Submission of Theory Assignment

- All answers must be written **handwritten**.
- The assignment must be written in the **SGSITS notebook only**.
- Neatness and proper presentation will be considered for marking.
- Late **submission is strictly not allowed.**

Q1. Explain Circular Queue with advantages over simple queue.

Q2. Explain Hash Table implementation and analyse its time complexity.

Q3. What is feasible solution and optimal solution?

Q4. Explain Strassen's Matrix Multiplication with example and recurrence relation.

Q5. Write an algorithm to insert_at_end and delete_at_specific position node in a Linked List.