CHEMISTRY

MID EXAMINATION

DATE:15-03-2025 MAX MARKS:30

ANSWER THE FOLLOWING QUESTIONS

- 1. A) Explain Schrodinger wave equation and Discuss about significance of Ψ and Ψ^2 in quantum mechanics? (5M)
- B) Explain bonding in homo and Draw the molecular orbital diagram of N2 and explain the magnetic nature and bond order?(5M)
- 2. A) Discuss particles in one dimensional potential box with a suitable example?(5M)
 - B)Draw the π molecular orbitals of benzene?(5M)
- 3. A) Explain basic principles of semiconducting materials?(5M)
 - B)Write an account on carbon nano tubes with types and it's applications?(5M)

(OR)

- 4. A) What are super capacitors? How they are classified?(5M)
 - B)What are the important engineering applications of semi-conducting materials?(5M)