❖ Problems

Q 1. What are aliphatic nucleophilic substitution reactions? Name various types.

Q 2. What are the major differences between SN_1 and SN_2 reactions?

Q 3. Describe neighboring group participation? How does σ-bond can also place the same role?

Q 4. Define anchimeric assistance. Discuss with suitable examples.

Q 5. Discuss the stability of classical and non-classical carbocations.

Q 6. What are meso-phenonium ions? How are they different from C_2-symmetric phenonium ions?

Q 7. Give major rearrangement reactions of classical carbocations.

Q 8. Write a short note on the SN_i' mechanism with special emphasis on its relative study with normal SN_i.

Q 9. Discuss the effect of substrate structure on the reactivity of nucleophilic substitution reactions.

Q 10. What are nucleophiles? How does their strength affect the rate of nucleophilic substitution reactions?

Q 11. Discuss ambident nucleophiles?

Q 12. State and explain regioselectivity.

Q 13. What is phase transfer catalysis?

Q 14. Discuss the applications of NMR spectroscopy in the structure determination of carbocations.

Q 15. What is the 'single electron transfer (SET)' mechanism? Explain with suitable example.

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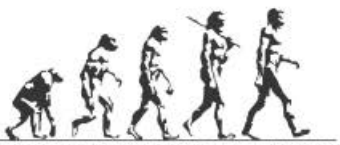

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