

(Revised Scheme 2) www.FirstRanker.com

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Q.P. CODE: 9232

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary. Answer all questions

LONG ESSAY (Answer any TWO)

2 X 20 = 40 Marks

- a) Explain in detail with mechanism about pinacol-pinacolone rearrangement.
 - b) what do you mean by cine substitution? Discuss the mechanism involved with suitable examples.
- 2. a) Define free radical. Explain in detail the formation of free radical. Explain in detail reaction involving free radicals.
 - b) Discuss the mechanism involved in Benzoin condensation and perkin reaction.
- a) Give an account of ring expansion with appropriate examples 3.
 - b) Discuss the Mechanism of Hoffmann rearrangement with suitable examples.

SHORT ESSAY (Answer any FIVE)

5 X 10 = 50 Marks

- Write about trans annular rearrangements with suitable examples. 4.
- What are nitrenes? Discuss the mechanism involved in curtius reaction schmdt & lossen 5. rearrangement.
- Discuss the principle involved in phase transfer catalysis with appropriate example 6.
- 7. What do you mean by sigmatropic rearrangement the synthetic applications of sigmatropic rearrangement.
- 8. Discuss the mechanism involved diels – alder reaction using molecular orbital method
- 9. Write a note on combinatorial chemistry

SHORT NOTES 2 X 5 = 10 Marks

- Discuss the formation structure and stability of Carbocations. MANN FIRST Rain
- 11. Free radicals.