ΡΑΡΕΚ Π

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

Q.P. CODE : 9232

LONG ESSAY (Answer any TWO)

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2 X 20 = 40 Marks

5 X 10 = 50 Marks

2 X 5 = 10 Marks

- a) Write an account of formation, stability and reactions of free radicles
 b) Explain addition to multiple bonds
- a) Explain Cannizzaro reaction and Favorskii rearrangement with examplesb) Write Polymer-supported synthesis of organic compounds giving examples
- a) Discuss Benzyne mechanism for Aromatic Nucleophillic substitution giving examples
 b) What is the stability of carbocations? Explain with examples Pinacol-Pinacolone rearrangement

SHORT ESSAY (Answer any FIVE)

- 4. Explain giving mechanism, stereochemistry and examples "Hofman degradation of amides"
- 5. Write about macro beads in new solid-phase synthesis
- 6. Explain giving mechanism and examples for Reimer-Tiemen reaction and conversion of Pyrrole to Pyridine
- 7. Explain giving examples Diel's Alder reaction and stereochemistry of pericyclic reactions
- 8. Explain homo and heterogenous catalysis with examples
- 9. Explain phase transfer catalysis and its applications

SHORT NOTES

- 10. Curtius, Schmidt and Lossen rearrangement reactions
- 11. Discuss mechanism, examples of cope rearrangements