



Draw neat labeled diagrams wherever necessary. Answer **FOUR** questions

ANSWER ANY FOUR

4 X 25 = 100 Marks

1.
 - a) Discuss with examples, the formation and stabilities of carbocations and write the influence of substituents on their stabilities
 - b) How do you say that carboxylic acids are more acidic than phenols based on resonance
2.
 - a) Give an account of the methods of determination of reaction mechanisms
 - b) Discuss the mechanism and applications of pinacol pinacolone rearrangement
3. Write short notes on:
 - a) Beckmann rearrangement
 - b) Benzilic acid rearrangement
 - c) Schmidt reaction
 - d) Benzoin condensation
4.
 - a) Explain with a suitable example the salient features of a substitution
 - b) Discuss the stereochemical evidence in favour of this reaction
 - c) How can you say that S_N1 reactions proceed with inversion and racemization in which inversion exceeds
5. Give an account of
 - a) Aromatic nucleophilic substitution
 - b) Friedel – Crafts alkylation and acylation
 - c) Cannizzaro reaction
 - d) Favorski rearrangement
6. Write briefly on:
 - a) R and S configuration
 - b) Heterogeneous catalysis
 - c) Diels – Alder reaction
 - d) Sigmatropic rearrangement

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