

**35151 : Pharmaceutical Organic Chemistry - I : T-3.3**

P. Pages : 1

Time : Three Hours



**AV - 2329**

Max. Marks : 60

- Notes :
1. All question carry equal marks.
  2. Answer **any five** question.
  3. Discuss the reaction, mechanism wherever necessary.

1. Discuss in details methods of element determination, empirical formula, molecular weight and molecular formula determination. 12
2. Write a short note on methods of preparation and reactions of alkanes. 12
3. Discuss in details nucleophilic substitution first order. Discuss its reaction kinetics and stereochemistry. Also enlist and explain factors affecting substitution. 12
4. Explain Regioselectivity in addition reactions of alkenes. Also add an account on allylic substitution and ozonolysis. 12
5. Write a note on conjugated dienes. 12
6. Discuss methods of preparation and reactions of alcohol. 12
7. Write short notes on **any two**. 12
  - a) Orientation and reactivity in electrophilic aromatic substitution.
  - b) Structure and stability of benzene.
  - c) Nucleophilic aromatic substitution.

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