Subject Code: B13106/R13

I B. Pharmacy I Semester Supplementary Examinations, May - 2017 PHARMACEUTICAL ORGANIC CHEMISTRY-I

Time: 3Hours Max Marks: 70

Question Paper Consists of **Part-A** and **Part-B**Answering the question in **Part-A** is Compulsory,
Three Questions should be answered from **Part-B*******

PART-A

- 1. (a) Explain the formation and stability of free radicals.
 - (b) Write the nomenclature and any two methods of preparation of alkenes.
 - (c) Brite note on Hoffmann orientation.
 - (d) Mention any two methods of preparation of Grignard reagent.
 - (e) Brief about Williamsons synthesis of ethers.
 - (f) What is Geometric isomerism?

[4+4+3+4+3+4]

PART-B

- 2. (a) Explain the electronic effects and hyperconjugation with their importance of organic molecules.
 - (b) Give a short note on carbocations.

[10+6]

- 3. (a) What is S_N1 & S_N2 reaction? Explain the mechanism with a suitable example.
 - (b) Explain the following.
 - (i) allylic substitution (ii) Elimination reactions by E1 mechanism

[10+6]

- 4. (a) What are alcohols? Classify them. Outline the nomenclature, method of preparation and chemical reactions of alcohols.
 - (b) Write a brief note on iodoform reaction and Lucas test.

[9+7]

- 5. (a) Explain configuration with suitable examples. Write in brief about stereo isomers and optical isomers.
 - (b) What is recemic mixture? Explain different types of racemic mixtures. Enlist different methods of resolution of racemic modifications. [8+8]
- 6. (a) Explain why alkyl halides undergo nucleophilic aliphatic substitution reactions?
 - (b) Explain nucleophilic aliphatic substitution reactions of alkyl halides for preparation of Organic compounds. [8+8]
- 7. (a) How to prepare Grignard reagent? Write any three synthetic applications of Grignard reagent.
 - (b) Enumerate the applications and substitution reactions by using Grignard reagent in organic synthesis. [8+8]

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