

Code No: B1106/R10

Set No. 1

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

Time: 3 hours Max Marks: 75

Answer any FIVE Questions All Questions carry equal marks

- 1. (a) Define Mesomeric effect. Classify with examples. Explain in brief Mesomeric effect.
 - (b) Explain briefly about Hyper conjugative effect with examples. [8+7]
- 2. (a) What are saturated Hydrocarbons? Explain the different systems of naming alkanes.
 - (b) Define Isomerism and Conditional Isomerism. Explain in brief the Isomerism and conformations of alkanes. [8+7]
- 3. (a) What are the Conjugated Alkadienes? Write the 1,4 addition reaction with mechanism. Explain the stability of conjugated-alkadienes.
 - (b) Explain in brief the activity of 1-alkynes. [8+7]
- 4. (a) Explain the statement "Benzene undergoes Electrophilic Aromatic Substitution Reactions"
 - (b) Write short notes on Activating and Deactivating Groups in Electrophilic Aromatic Substitution Reactions of Substituted Benzene [8+7]
- 5. (a) Write in detail nomenclature of benzene derivatives with suitable examples.
 - (b) Describe the Molecular Orbital Picture of benzene with heats of hydrogenation. [7+8]
- 6. Write the Reaction Mechanism, kinetics, energetics, stereochemistry and factors influencing SN power 2 Mechanism? Add a note on Walden Inversion? [15]
- 7. (a) Write short notes on [8+7]
 - (i) Antiaromaticity (ii) Aromaticity of Heterocyclic Compounds
 - (b) Enlist various Electrophilic Aromatic Substitution Reactions of Benzene? Add a note on Friedel Crafts Reactions.
- 8. (a) Describe the following Methods of Preparation of Alkyl halides with suitable examples
 - (i) Finkelstein Method
 - (ii) Hunsdiecker Method
 - (b) Explain why Alkyl halides undergo Nucleophilic Aliphatic Substitution Reactions? Enlist various Nucleophilic Aliphatic Substitution Reactions of Alkyl halides for preparation of different classes of Organic compounds? [8+7]