

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

- (a) Define Mesomeric effect. Classify with examples. Explain in brief Mesomeric effect.

(b) Explain briefly about Hyper conjugative effect with examples. [8+7]
- (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]
- (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]
- (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]
- (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]
- Write the Reaction Mechanism, kinetics, energetics, stereochemistry and factors influencing SN₂ Mechanism? Add a note on Walden Inversion? [15]
- (a) Write short notes on [8+7]

 - Antiaromaticity
 - Aromaticity of Heterocyclic Compounds

(b) Enlist various Electrophilic Aromatic Substitution Reactions of Benzene? Add a note on Friedel Crafts Reactions.
- (a) Describe the following Methods of Preparation of Alkyl halides with suitable examples

 - Finkelstein Method
 - 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]

WWW.MANARESULTS.CO.IN