Code No: B1106/R10 m R10

I B.Pharmacy I Semester Supplementary Examinations, Feb. 2015 PHARM ORGANIC CHEMISTRY -I

Time: 3 hours Max Marks: 75

Answer any FIVE Questions All Questions carry equal marks

- 1. (a) Define inductive effect. Classify with examples. Explain in brief inductive effect.
 - (b) Write a short note on Electromeric effect.

[8+7]

- 2. (a) Give the general mechanism of Electrophilic addition reactions. Discuss the Electrophilic addition reactions of alkenes with examples.
 - (b) Define Markovnikov's rules. Discuss the mechanism with a suitable example. [8+7]
- 3. (a) What are Conjugated Alkadienes? Write the 1, 4 addition reaction with mechanism. Explain the stability of conjugated-alkadienes.
 - (b) Explain in brief the acidity of 1-alkynes.

[8+7]

- 4. (a) Define Birch Reduction? Write the Reaction Mechanism involved in it? Add a note on Synthetic Applications of Birch Reduction
 - (b) Explain the statement "Benzene though Unsaturated undergoes Electrophilic Substitution Reactions rather than Electrophilic Addition Reactions" [8+7]
- 5. Write the Reaction Mechanism for the following Reactions of Benzene
 - (a) Nitration
- (b) Sulphonation
- (c) Halogenation

[5+5+5]

- 6. (a) What is Saytzeff 's Rule? Write a note on Saytzeff Orientation in Elimination Reactions of Alkyl halides?
 - (b) Write short notes on
 - (i) Reduction of Alkyl halides
 - (ii) Formation of Organo Metallic compounds from Alkyl halides

[7+8]

- 7. (a) Write short notes on
 - (i) Antiaromaticity
 - (ii) Aromaticity of Heterocyclic Compounds
 - (b) Enlist various Electrophilic Aromatic Substitution Reactions of Benzene? Add a note on Friedel Crafts Reactions [8+7]
- 8. (a) What are Aryl halides and give examples? Explain why Aryl halides are less reactive than Alkyl halides towards Nucleophilic Substitution Reactions?
 - (b) Describe any Three important Methods of Preparation of Aryl halides with suitable Examples? [8+7]

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