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**R09** 

Code: 9R01103

## B.Pharm I Year (R09) Supplementary Examinations June 2018

## PHARMACEUTICAL ORGANIC CHEMISTRY - I

(For 2009 (LC), 2010, 2011, 2012 regular & 2011 (LC), 2012, 2013 lateral admitted batches only)

Time: 3 hours Max. Marks: 70

## Answer any FIVE questions All questions carry equal marks

- 1 (a) Discuss hyper conjugation with example and define bond dissociation energy.
  - (b) Explain concept of resonance with examples.
- 2 (a) Explain the mechanism of Anti-Markovnikov's rule with suitable example.
  - (b) Write the stability of alkadienes and give the reaction of 1,4 addition reaction.
- 3 (a) Explain theory of reactivity and orientation in mono-substituted benzenes.
  - (b) Define Huckel's 4n+2 rule and write the criteria for aromatic compounds.
- 4 (a) Write the stereochemistry of SN' mechanism and define Walden inversion.
  - (b) Explain the concept of benzyne ion.
- 5 (a) Write any two method of preparation of ethers.
  - (b) Explain Kolbe's Schmidt reaction with mechanism.
- 6 (a) Outline the mechanism of Perkin's condensation.
  - (b) Explain the mechanism of Aldol condensation.
- 7 (a) Explain ionization of carboxylic acid and write the structure of carboxylate anion.
  - (b) Write the reaction mechanism involved in Hoffmann's degradation reaction.
- 8 (a) Write any two methods of preparation for nitriles.
  - (b) Arrange the order of basicity of aniline, trimethyl amine & methyl amine. Give the reason.

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