

First Year B.Pharm Degree Examinations, August 2016

PHARMACEUTICAL CHEMISTRY - II
(Organic Chemistry)

(2012 - Scheme)

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Write equations wherever necessary.

Essay

(3x10=30)

1. Discuss the reactions of phenols due to the OH group. Compare and contrast these reactions with those of aliphatic alcohols.
2. Explain the electrophilic reactions of alkenes with any three examples.
3. Explain the mechanism of Oppenauer reaction and Reformatsky's reaction.

Short notes

(14x5=70)

4. Explain Walden inversion with example.
5. Describe the ring stability of cyclohexane along with chair –boat conformation.
6. Explain Bayer's strain theory.
7. Explain the reactions of diazonium salts
8. What are the products obtained when nitro benzene is reduced in acidic, neutral and alkaline medium.
9. Distinguish between primary, secondary and tertiary alcohols.
10. Explain Markovnikov's rule.
11. What is hybridization and explain the different types with examples.
12. Zeisel's method.
13. What are acid amides. Mention a method of its preparation and two reactions of acid amides.
14. Dicarboxylic acids.
15. Mention two methods of preparing aldehyde and ketones.
16. Explain keto enol tautomerism and acidity of terminal hydrogen in alkynes
17. Reimer-Teimann reaction.
