

First Year B.Pharm Degree Supplementary Examinations, February 2017

PHARMACEUTICAL CHEMISTRY - II

(Organic Chemistry)

(2012 - Scheme)

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Write equations wherever necessary.

Essay

(3x10=30)

1. Explain the mechanism of substitution reactions of alkanes giving suitable examples
2. Define and explain the mechanism of Markonikovs and Antimarkonikovs addition reaction
3. Explain with examples the mechanism of E1 and E2 reactions

Short notes

(14x5=70)

4. Mechanism of SN₁ And SN₂ reactions
5. Explain the mechanism involved in the halogenation of benzene
6. Explain the acidity of carboxylic acids and stability of carboxylate ions
7. What is hyperconjugation. Explain its effect on stabilization of alkyl radical
8. Explain diazotization and reaction of diazonium salts
9. Explain the acidity of phenols and stability of phenoxide ion
10. Mention with example the mechanism of Fries rearrangement reaction
11. Explain with mechanism the aldol condensation
12. Three characteristic reactions of benzene and theory of reactivity
13. Explain the polarity of carbonyl group and a note on the relative reactivities of carbonyl compounds
14. Walden inversion
15. Mention five characteristic functional group reactions of amines
16. Two methods of preparation and two reactions of nitro compounds
17. One method of preparation of acid chloride, amide and anhydride
