

First Year B.Pharm Degree Supplementary Examinations October 2018

Pharmaceutical Chemistry - II

(Organic Chemistry)

(2010 Scheme)

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Write equations wherever necessary.

Essay

(3x10=30)

1. Discuss in detail inductive effect and hyperconjugation. Cite appropriate examples.
2. Explain the stability of the cyclo-alkanes with reference to Bayer's strain theory.
3. Give an account of electrophilic substitution reaction in benzene and discuss in detail the reactivity and orientation of monosubstituted benzenes

Short notes

(14x5=70)

4. Transition state in organic reactions.
5. Free radical mediated reaction in alkanes.
6. Polymerization reactions in alkenes.
7. Walden inversion.
8. Dehydration of 1°, 2° and 3° alcohols.
9. Nucleophilic addition reaction of aldehydes.
10. Mechanism of aldol condensation.
11. Preparation of malonic ester and its significance in organic chemistry.
12. Differentiating 1°, 2° and 3° amines
13. Diazotization reaction: mechanism.
14. How will you prepare 1°, 2° and 3° alcohols from carbonyl compounds using Grignard reagent.
15. Markovnikov's rule and anti-markovnikov's rule.
16. Discuss any two method for the preparation of the following: phenol & aniline.
17. Resonance
