

First Year Pharm D Degree Supplementary Examinations - February 2015

Pharmaceutical Organic Chemistry

Time: 3 Hours

Total Marks: 70

- Answer all Questions.
- Write equation wherever necessary.

Essay

(3x10=30)

1. Explain the theory of activating and deactivating effects on reactivity of benzene towards electrophilic substitution.
2. Explain in detail about the mechanism involved in aldol condensation and Cannizaro reaction.
3. Briefly discuss about the electrophilic addition reactions of alkenes.

Short notes:

(8x5=40)

4. Hoffmann`s rearrangement.
5. Explain Kolbe`s synthesis and Williamson`s synthesis.
6. Mention the preparation , assay and uses of dimercaprol and methyl salicylate.
7. Mechanism involved in benzoin condensation.
8. Explain polarity of molecules.
9. Carbocations and its stability.
10. Suggest a mechanism for nitration of benzene.
11. What is diazotisation. Mention the coupling reactions of diazonium salt.
