

QP CODE:102006

Reg.No:

First Year B.Pharm Degree Examinations - September 2012

PHARMACEUTICAL CHEMISTRY - I

(Organic Chemistry)

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Write equations wherever necessary.

Essay

(3x10=30)

1. Describe resonance, hyper conjugation, mesomerism and inductive effect with examples.
2. Discuss the general methods of preparation and reactions of phenols.
3. Explain the mechanism of benzoin condensation and Reformatsky reaction.

Short notes

(14x5=70)

4. Mention the synthesis and importance of malonic ester.
5. Explain the mechanism of Cannizzaro reaction
6. Explain the mechanism of SN1 and SN2 reactions.
7. Explain Sachse-Mohr theory with example.
8. Explain the acidity of alkynes.
9. Discuss Kharasch effect and Bayer's oxidation.
10. Explain Kekule's structure of benzene.
11. Discuss the effect of substituents in electrophilic aromatic substitution reaction.
12. Explain with an example the mechanism of nucleophilic addition reaction of carbonyl compounds.
13. Mention any two important methods of preparation of carboxylic acids and alcohols.
14. Explain the basicity of amines.
15. Explain free radical substitution reaction of alkanes with mechanism.
16. Discuss Stability on conjugated dienes.
17. What are acid anhydrides. Mention any two methods of preparation of acid anhydrides.
