

First Year Pharm D Degree Supplementary Examinations - February 2014

Pharmaceutical Organic Chemistry

Time: 3 Hours

Total Marks: 70

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essay

(3x10=30)

1. Explain electrophilic aromatic substitution with suitable examples.
2. Briefly narrate the following:
 - Bayer's strain theory
 - Oxidation reduction reactions.
3. Explain the following reaction with mechanism of aldol condensation and Reformatsky reaction.

Short notes:

(8x5=40)

4. Nucleophilic aryl substitution
5. Inter molecular forces involved in bond formation.
6. Explain the mechanism of E_1 and E_2 reactions.
7. Wittig reaction and Michael addition.
8. Mention the structure, preparation, chemical name and uses of benzyl benzoate.
9. Explain the mechanism and stability of free radical chain reaction of alkanes.
10. Mention the structure for the following:
 - Paraldehyde
 - 1, 2-dichloroethane.
 - Glycerol trinitrate
 - Aspirin
 - Sodium lauryl sulfate
11. Explain the mechanism for the reaction of acid chlorides with benzene in the presence of aluminium chloride catalyst.
