

Code No: R7-104-BP

B. Pharmacy I Year Regular Examinations, June 2009
PHARMACEUTICAL ORGANIC CHEMISTRY-I

Time: 3 hours

Max. Marks: 80

Answer any FIVE questions
All questions carry equal marks

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1. a) Write short notes on inductive effects of organic molecules and its applications.
b) Write short notes on Molecular structure elucidation with examples. [8+8]
2. Give a detailed account of mechanism and stereochemistry of E1 and E2 reactions with particular reference to aliphatic and alicyclic compounds. [16]
3. a) Write short notes on a general method of derivatizing benzene.
b) Outline the various types of Arene reactions with examples. [8+8]
4. What is SN2 reaction? Discuss the mechanism of SN2 reaction with the help of one suitable example? Give proof for the mechanism. [16]
5. a) Define and classify alcohols with suitable examples.
b) What is nucleophile? Explain the mechanism of nucleophilic substitution with suitable examples. [7+9]
6. Explain in detail the following reactions with at least four examples for each:
a) Addition reactions and
b) Condensation reactions of the carbonyl group. [16]
7. a) Discuss the fate and stability of carbonium ions with examples.
b) Explain the mechanism of Hoffmann's degradation reaction. [8+8]
8. How will you prepare the following?
a) Methyl amine from ethylamine
b) Ethyl isocyanide from ethylamine.
c) Secondary amine from primary amine. [16]