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PY - 203
B.Pharm. II Semester
Examination, June 2013
Pharmaceutical Chemistry-III
(Organic-I)
Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.

ii) Give reaction and mechanism wherever required.

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| 1. a) Discuss the criteria for optical activity. Describe R/S configuration. | 7 |
| b) What is racemic modification? How is it resolved? | 7 |
| 2. a) Explain Huckel's rule for aromaticity. | 7 |
| b) Discuss the orientation and reactivity in nucleophilic aromatic substitution. | 7 |
| 3. Compare and contrast S_N1 and S_N2 reaction mechanisms. | 14 |
| 4. Discuss the mechanism and evidences of unimolecular elimination reaction. | 14 |
| 5. Discuss (any two): | 7+7 |
| a) Hoffman degradation of amides | |
| b) Aldol condensation | |
| c) Williamson's synthesis | |
| 6. Elaborate in detail nucleophilic addition to carbonyl group. | 14 |
| 7. Discuss free radical substitution to alkanes. Explain its orientation and reactivity. | 14 |
| 8. Write short notes on : (any Two) | 7+7 |
| i) Ozonolysis | |
| ii) Acidities of phenols, alcohols and carboxylic acids | |
| iii) Preparation and chemical reactions of diazonium salts. | |