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Roll No.

PY-203

B. Pharm. (Second Semester)

EXAMINATION, June, 2012

(Grading/Non-Grading)

PHARMACEUTICAL CHEMISTRY – III

(Organic – I)

(PY – 203)

Time : Three Hours

Maximum Marks : 70

Note : Attempt any *five* questions. Give reaction and mechanism wherever required.

1. Discuss Molecular Orbital Theory. Explain briefly formation of molecular orbitals from atomic orbitals. 14
2. (i) Discuss R and S configuration with the help of sequence rules. 7
(ii) Describe the criteria for a molecule to exhibit optical isomerism. 7
3. What is Carbonium ion ? How is it formed ? Discuss its rearrangement and stability. 14
4. Compare and contrast E_1 and E_2 reaction mechanisms in detail. 14
5. Discuss aromaticity of benzene. Give mechanisms of Electrophilic aromatic substitution in Benzene. Discuss its orientation and reactivity. 14

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6. Discuss various addition reactions of carbonyl group. 14
7. Discuss the mechanism of Electrophilic Addition reaction with reference to its orientation and reactivity. 14
8. Write short notes on any *two* of the following : 7 each
 - (i) Williamson's synthesis
 - (ii) Reimer-Teimann reaction
 - (iii) Friedal Craft alkylation

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