

QP Code: 3313

Reg No: .....

M Pharm Part I Degree Examinations - June 2012  
(Pharmaceutical Chemistry)  
Paper III - Advanced Organic Chemistry

Time : 3 hrs

Maximum Marks: 100

- Answer all questions
- Draw diagrams wherever necessary

Essays: (2x20=40)

1. Explain the mechanism (including stereo chemistry) and the importance of various reduction reactions you have studied.
2. Discuss the chemistry associated with asymmetric synthesis of amino acids and beta lactams

Short Essays: (6x10=60)

3. Discuss addition to carbon-carbon and carbon-hetero multiple bond reactions.
4. Discuss regioselective 'O' versus 'C' alkylation reactions.
5. Explain catalysis.
6. Explain aliphatic electrophilic substitution reactions with examples.
7. Discuss the ranking of electron withdrawing groups with examples.
8. Explain free radicals.

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