QP Code: 105331 Reg No:

First Year M.Pharm Degree Examinations – September 2013 (2011 Scheme)

(Pharmaceutical Chemistry) Paper I – Advanced Medicinal Chemistry

Time: 3 hrs Maximum Marks: 100

- Answer all questions
- Draw diagrams wherever necessary

Essays: (2x20 =40)

- 1. What is meant by analog design. Explain in detail bio-isoteric replacements and rigid analogs.
- 2. Discuss the various steric substituent constants commonly used in QSAR. Explain the effect of steric and electromeric parameters on lipophilicity.

Short Essays: (6x10=60)

- 3. Define prostaglandins and cassify it with suitable structures. Add a note on its nomenclature.
- 4. Monte Carlo method of conformational analysis.
- 5. What are anti-hyperlipidemic agents. Classify it with suitable structures. Outline the synthesis of clofibrate.
- 6. What is nitrogen mustard. Explain the synthesis of chlorambucil and cyclophosphamide
- 7. Explain the advantages and limitations of molecular modeling software's
- 8. Discuss about recent advances in agents used to treat Alzheimer's diseases
