

QP Code: 3311

Reg No:

M Pharm Part I Degree Examinations - June 2012
(Pharmaceutical Chemistry)
Paper I - Drug Design

Time: 3 hrs

Maximum Marks: 100

- *Answer all questions*
- *Draw diagrams wherever necessary*

Essays:

(2x20 =40)

1. Discuss the different parameters used in QSAR and explain their influence on biological activity. Add a note on applications and limitations of Hansch equation
2. Explain in detail how recombinant DNA technology is used as a tool in developing new drugs. Add a note on site directed mutagenesis and receptors as drug targets.

Short Essays:

(6x10=60)

3. Explain in detail about phase I and phase II metabolic reactions.
4. Write a note on combinatorial chemistry with special reference to parallel organic synthesis technology.
5. What is topliss decision tree analysis. Explain peptidomimetics in drug design
6. Explain in detail the various factors to be considered while designing analogs of original lead.
7. Discuss the various approaches adopted in prodrug design with at least two examples from each category .
8. Explain the terms •Deconvolution •High throughput screening.
