

QP Code: 105331

Reg No: .....

First Year M.Pharm Degree Examinations August 2017

(Pharmaceutical Chemistry)

Paper I – Advanced Medicinal Chemistry

Time: 3 hrs

Maximum Marks: 100

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

Essays:

(2x20 =40)

1. Classify anti-neoplastic agents with examples from each class. Discuss the chemistry, mode of action of cyclophosphamide and mercaptopurine. Outline the synthesis of chlorambucil
2. Discuss in detail Hammett, Hansch and Taft equations with suitable examples. Mention its limitations

Short Essays:

(6x10=60)

3. Mention the importance of peptidomimetics in drug design with an example
4. Describe the molecular modeling in drug design
5. Explain the role of bio-isosteric replacement and rigid analogs in drug design
6. Discuss the utility of radio-sensitizers and radio-protective agents
7. What are Eicosanoids. Discuss the chemistry of some medicinally useful eicosanoids
8. Discuss the agents used in the treatment of parkinsonism and Alzheimer's disease

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