

FACULTY OF PHARMACY

M. Pharmacy (Pharmaceutical Chemistry) I-Semester (PCI) (Main & Backlog)
Examination, January 2020

Subject: Advanced Medicinal Chemistry

Time: 3 Hrs

Max. Marks: 75

Note: Answer any Five questions. All questions carry equal marks

- 1 a) Give an accnt on varis types of drug targets.
b) Discuss theories of drug receptor interactions. (6+9)
- 2 a) Discuss abt lead optimiza tion in drug discovery.
b) Give an accnt on pro -moieties for varis functional grps in prodrug design. (8+7)
- 3 a) What is hypertension? Give the classification of Antihypertensive agents with examples.
b) Explain how the chirality of drugs is important for its pharmacological activity? (8+7)
- 4 a) Define drug resistance and discuss the mechanisms of antibiotic drug resistance.
b) Classify anti convulsants with examples and discuss the SAR of Benzodiazepines. (8+7)
- 5 a) Give an accnt on enzyme inhibitors in medicine and basic research.
b) Discuss abt Non -covalently binding enzyme inhibitors and their pharmacological significance. (8+7)
- 6 a) Define peptidomimetics and discuss the advantages of them over peptide drugs
b) Discuss abt unnatural amino acids used in peptidomimetic drug design. (8+7)
- 7 a) Discuss the chemistry of prostaglandins and leukotrienes.
b) Explain the concept of bio-isosterism. (8+7)
- 8 Write a short note on : (8+7)
a) Beta Blockers
b) HIV protease inhibitors
