

Code No. 1162/PCI

FACULTY OF PHARMACY**M. Pharmacy (Pharmaceutical Chemistry) I-Semester (PCI) (Main) Examination,
February 2018****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 types of Receptors and their activation mechanism. (6+9)
- 2 a) Discuss the varis approaches used in the design of analogues from Lead Compnd .
b) Give an accnt on pro -moieties for varis functional grps in prodrug design. (8+7)
- 3 a) Classify antihypertensive drugs with example.
b) Explain how the chirality of a drug molecule influences it's pharmacokinetic properties ? (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 barbiturates. (8+7)
- 5 a) Give an accnt on enzyme inhibitors in medicine and basic research .
b) Explain abt Non -covalently binding enzyme inhibitors. (8+7)
- 6 a) Define peptidomimetics and discuss the advantages of them over peptide drugs.
b) Explain the varis approaches involved 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
a) ACE inhibitors
b) HIV protease inhibitors (8+7)
