

Code No. 13152 / PCI

FACULTY OF PHARMACY**M. Pharmacy (Pharmaceutical Chemistry) I – Semester (Main & Backlog)
Examination, February 2019****Subject : Advanced Medicinal Chemistry****Time : 3 hrs****Max. Marks : 75*****Note : Answer any FIVE questions. All questions carry equal marks.***

- 1 a) Discuss the concept of rational drug design in new drug discovery.
b) Write a note on the srces of lead discovery. 9+6
- 2 a) Explain the development of resistance to anticancer drugs and underlying mechanisms.
b) How does ADME properties are improved thrgh prodrug design? 8+7
- 3 a) Give an acct on COX -II inhibitors.
b) Classify adrenergic antagonists and discuss the SAR of B-blockers. 8+7
- 4 a) Define drug resistance and discuss the strategies to overcome resistance to antibiotics.
b) Classify anti convulsants with examples and discuss the SAR of Benzodiazepines. 8+7
- 5 a) Give an acct on rational design of enzyme inhibitors.
b) Explain abt Non -covalently binding enzyme inhibitors. 8+7
- 6 a) Write a note on modification of amino acid in peptidomimetic design.
b) Write a note on manipulation of peptide back bone and incorporation of conformational constraints in peptidomimetic drug design. 8+7
- 7 a) Discuss, how does the stereochemistry of drug influences absorption, distribution and elimination.
b) Explain the concept of bio-isosterism. 10+5
- 8 Write a short note on :
a) ACE inhibitors b) H2 antihistaminics 8+7
