

Code No. 1294/PCI

FACULTY OF PHARMACY**M. Pharmacy (Pharmaceutical Chemistry) I-Semester (PCI) (Suppl.) Examination,
August 2018****Subject: Advanced Medicinal Chemistry****Time: 3 Hrs****Max. Marks: 75****Note: Answer any five questions. All questions carry equal marks.**

- 1 a) Discuss abt varis stages involved in the drug discovery.
b) Explain the theories of drug receptor interactions. (8+7)
- 2 a) Define prodrug and discuss the applications of prodrugs with suitable examples.
b) Discuss the strategies to overcome the drug resistance to antibiotics. (9+6)
- 3 a) Give the classification of H1 and H2 histamine receptor antagonists with suitable examples.
c) Discuss how chirality of drug molecule influences the pharmacological action? (9+6)
- 4 a) Give the classification of enzyme inhibitors with suitable examples.
b) Discuss the rational design of reversible enzyme inhibitors. (10+5)
- 5 a) Define peptidomimetics and discuss the varis types of peptidomimetics.
b) Explain the varis approaches used in peptide modifications in peptidomimetics design. (7+8)
- 6 a) Classify antineoplastic drugs with suitable examples and discuss the mechanism of action of methotrexate and chlorambucil.
b) Discuss the chemistry of prostaglandins. Write the structures of therapeutically useful prostaglandins. (9+6)
- 7 Write a note on
a) Srces for lead identification
b) Drug receptor interactions (7+8)
- 8 a) What are bio-isosters? Discuss their applications in analogue design.
b) Write a note on cyclooxygenase inhibitors. (8+7)
