

(LH 4262)

AUGUST 2015

Sub. Code: 4262

**THIRD YEAR B.PHARM. EXAMINATION
PAPER II – MEDICINAL CHEMISTRY -I**

Q.P. Code: 564262

Time: Three hours

Maximum: 100 marks

I. Essay:

(2 x 20 = 40)

1. a) Derive the synthesis for (i) Halothane (ii) Methohexital sodium.
b) Describe the Structure Activity Relationship of Phenothiazine.
c) Define antiepileptics and Classify with example.
2. Explain the following physiochemical parameters related to biological activity with Example.
a) Bioisosterism b) Ionization c) Geometrical isomerism d) Chelation.

II. Short notes:

(8 x 5 = 40)

1. Describe the isomers and synthesis of Ephedrine.
2. Classify adrenergic antagonists with at-least one structure for each class.
3. Give the Structure Activity Relationship of Morphine.
4. Explain about drug latention.
5. Classify local anaesthetics with at-least one structure for each class.
6. Give the Structure Activity Relationship of antihistaminic agents.
7. Give the synthesis and mechanism of actions of Hydrochlorthiazide.
8. Describe the chemistry and clinical uses of Eicosanoids.

III. Short answers:

(10 x 2 = 20)

1. Draw the structure and medicinal uses of Nalorphine HCl.
2. Define the term Signal transduction.
3. Sketch the structure and medicinal uses of Phenylbutazone.
4. Add a note on Phase-I reaction.
5. Outline the structure and medicinal uses of Galamine triethiodide.
6. Give two examples for Proton pump inhibitors.
7. Draw the structure and medicinal uses of Diazepam.
8. Give any two structures of Cholinergic drug.
9. Sketch the structure and medicinal uses of Nikethamide.
10. Define Anti-tussives and draw any one structure.
