

February 2012

[LA 4262]

Sub. Code: 4262

THIRD B.PHARM. EXAMINATION
Paper II – MEDICINAL CHEMISTRY - I

Q.P. Code: 564262

Time : Three hours

Maximum: 100 Marks

Answer ALL questions.

I. Elaborate on: (2 x 20 = 40)

1. (a) Define Diuretics? Classify with example.(2+6)
(b) Give the Structural Activity Relationship for the mercurial diuretics.(7)
(c) Derive the synthesis for (i) Acetazolamide (ii) Furosemide.(5)
2. (a). Define and Classify local anaesthetics with example. (2+3)
(b). Synthesis the followings: (i) Procaine (ii) Lignocaine (iii) Benzocaine
(iv) Dibucaine. (10)
(c) Give the Structural Activity Relationship of local anaesthetics.(5)

II. Write notes on:

(8 x 5 = 40)

1. Write a note on Bioisosterism.
2. Add brief note on Phase II Bio transformation pathway.
3. Give the Synthesis for (a) Phentoin (b) Ibuprofen.
4. Write a note on cholinergic receptors.
5. Biosynthesis of Eicosanoids.
6. Define Sedative and hypnotics? Classify with example.
7. Add a note on Proton Pump Inhibitors.
8. Give the synthesis for the following: (i) Salbutamol (ii) Promethazine.

III. Short Answers:

(10 x 2 = 20)

Give the Structure and Medicinal uses for the following

1. Aspirin.
2. Indomethacin.
3. Chlorpromazine HCl.
4. Diazepam.
5. Impiramine. HCl.

Define the following Terms

6. Chelation.
7. Carbonic Anhydrase Inhibitors.
8. Prodrug.
9. Tranquillise
10. Antiepileptics.
