

[KZ 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. LONG ESSAYS

(2 x 20 = 40)

1. a) What are adrenergic neurotransmitters explain their function with example. (2+8)
b) Derive the biosynthesis and metabolism of catecholamines. (5+5)
2. Explain the following physiochemical parameters related to biological activity with Example. (4 x 5 = 20)
a) Bioisosterism b) Hydrogen bonding c) Geometrical Isomerism d) Chelation.

II. SHORT NOTES

(8 x 5 = 40)

1. Application of Prodrug Design.
2. Classify General Anaesthetics with example. Give any one synthesis.
3. Give the Structural Activity Relationship of Thiazide Diuretics.
4. Add a note on COX-1 and COX-2 Inhibitors with mechanism.
5. Classify sedative and Hypnotics with example.
6. Define and classify Antitussive Agents with example.
7. Define Antipsychotics. Give the synthesis for chlorpromazine hydrochloride.
8. Give the synthesis for the following: a) Chlorthiazide. b) Terbutaline.

III. SHORT ANSWERS

(10 x 2 = 20)

Give the Structure and Medicinal uses for the following:

1. Halothane.
2. Diazepam.
3. Nikethamide.
4. Atenolol.
5. Benzocaine.

Define the following Terms:

6. Redox potential.
7. Xenobiotics.
8. MAO Inhibitors.
9. Tranquilliser
10. Local Anaesthetics.
