

[BPHARM 0522]

MAY 2022
(SEPTEMBER 2021 EXAM SESSION)

Sub. Code: 2051

B.PHARM. DEGREE EXAMINATION
PCI Regulation 2017 – SEMESTER V
PAPER I – MEDICINAL CHEMISTRY – II

Q.P. Code: 562051

Time: Three hours

Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions.

(2 x 10 = 20)

1. a) Define and Classify Anti-neoplastics.
b) Explain the mechanism of action of any four major classes of anti-cancer drugs.
c) Give the syntheses and uses of Tolbutamide and Mechlorethamine.
2. a) Classify Local-anaesthetics.
b) Enumerate the structures (any three), mechanism of action and SAR of Local anesthetics.
c) Give the synthesis of Procaine.
3. a) Give an account on Thyroid and anti-thyroid drugs.
b) Classify Anti-hypertensive agents.
c) Discuss on MOA of Anti-hypertensive & synthesis of Methyldopate HCl.

II. Write notes on: Answer any SEVEN questions.

(7 x 5 = 35)

1. Give the syntheses and uses of Dibucaine and Triprolidine HCl.
2. Give any two structures of Thiazide class of Diuretics and discuss its mechanism of action.
3. Account on ACE inhibitor, with example structures of drugs.
4. Write the syntheses and uses of Dibucaine and Disopyramide Phospahte.
5. Classification of Diuretics.
6. Give the structures & uses of any two 1,4-dihydropyridine and Piperazine based drugs.
7. Discuss on Biosynthesis & Preparations of Insulin.
8. Illustrate the classification of Anti-histamines and Anti-coagulants.
9. Mechanism of action of Anti-arrhythmic drugs.

III. Short answers on: Answer ALL questions.

(10 x 2 = 20)

1. Give the structure and uses of Diethyl stilbosterol.
2. What do you mean by Repolarisation elongators? Give examples
3. Write the structure and use of Lovastatin
4. Define and give example for Vasodilators.
5. Mention the examples for Cardiac smooth muscle relaxants. Give any one structure.
6. Enumerate the lists of AT1-antagonists, Give the structure of any one drug.
7. Give the synthesis and use of Mercaptopurine.
8. Exemplify ganglionic blockers with one structure.
9. Write the general pharmacophore for Beta blockers, add examples.
10. Structure and use of Isosorbide dinitrite.
