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25-PC-41

**M.Sc. IV SEMESTER [MAIN/ATKT] EXAMINATION
MAY - JUNE 2025**

PHARMACEUTICAL CHEMISTRY

Paper - I

[Advanced Medicinal Chemistry]

[Max. Marks : 75]

[Time : 3:00 Hrs.]

[Min. Marks : 26]

Note : Candidate should write his/her Roll Number at the prescribed space on the question paper.
Student should not write anything on question paper.
Attempt all five questions. Each question carries an internal choice.
Each question carries **15 marks**.

Q. 1 Explain types of diabetes, physiological function of Insulin and Insulin Deficiency.

OR

What are Thyroid Hormones ? Discuss Drugs used in therapy of Hypothyroidism.

Q. 2 Explain drug metabolism and its significance in medicinal chemistry.

OR

Discuss the enzyme stimulation and enzyme inhibition.

Q. 3 Discuss the classification of muscle relaxants. Write synthesis, properties and uses of Mephenesin.

OR

Discuss Narcotic Analgesics, their classification and SAR of Meperidine Analogues.

Q. 4 What are Immunosuppressant ? Discuss their classification, SAR and mode of action.

OR

What are anti HIV drugs ? Discuss SAR and therapeutic uses of them.

Q. 5 What are Antihyperlipidemic Agents ? Discuss synthesis, properties and uses of Ciprofibrate.

OR

Discuss classification, mode of action, SAR and therapeutic uses of Antifungal Drugs.