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25-CH-44-B

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

CHEMISTRY
Paper - IV
[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 a)** Explain relationship between chemical structure and biological activity.
b) State approaches to drug design and steps involved in design process.

OR

Write explanatory notes on –

- i) Free Wilson Analysis.
- ii) Hansch Analysis.

- Q. 2** Write notes on **any three** of the following –

- i) Sulfonamides.
- ii) Xenobiotics.
- iii) Significance of drug metabolism in medicinal chemistry.
- iv) Membrane active drugs.

- Q. 3** Write a detailed account on classification, mode of action, synthesis and therapeutic uses of Penicillin.

OR

Write a detailed account on classification, mode of action, synthesis and therapeutic uses of Dactinomycin.

P.T.O.

Q. 4 Write a detailed note on –

- i) Ciprofloxacin.
- ii) Polyenes.

OR

Write detailed notes on –

- i) Chloroquine.
- ii) Mefloquine.

Q. 5 Give classification, mode of action, and synthesis of –

- i) Diclofenac Sodium.
- ii) Salbutamol.

OR

Write notes on –

- i) Terfenadine.
- ii) Anti Ulcer Drugs.

