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24-CH-44-B

**M.Sc. IV SEMESTER [MAIN/ATKT] EXAMINATION
JUNE - JULY 2024**

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 five questions. Each question carries an internal choice.
Each question carries **15 marks**.

Q. 1 Write notes on **any two** -

(15 Marks)

- i) Hansch Analysis.
- ii) Induced Fit theory.
- iii) Receptor site theory.

OR

- a) Define 'Drug' and give its classification.
- b) What are different routes of drug administration ?

Q. 2 Write notes on **any two** -

(15 Marks)

- i) Xenobiotics.
- ii) Mode of action of sulphonamides.
- iii) Membrane active drugs.
- iv) Prodrugs and Soft drugs.

OR

Discuss the significance of drug metabolism in medicinal chemistry.

Q. 3 What do you mean by Broad Spectrum Antibiotics ? Give synthesis of chloramphenicol. (15 Marks)

OR

Write the synthesis of Tetracyclines and explain their uses.

P.T.O.

Q. 4 Write notes on **any two** -

(15 Marks)

- i) Synthesis and mode of action of Acyclovir.
- ii) SAR and synthesis of Mefloquine
- iii) Chemotherapy of Malaria.

OR

Write short notes on the following -

- i) Polyenes.
- ii) Synthesis of Norfloxacin.
- iii) Antimalarial Drugs.

Q. 5 Write the synthesis and mode of action of **any two** -

(15 Marks)

- i) Ibuprofen.
- ii) Netopam.
- iii) Salbutamol.

OR

- a) What are Anti Ulcer drugs ? Give classification.
- b) Explain the mode of action and therapeutic uses.

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