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25-PC-44

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

PHARMACEUTICAL CHEMISTRY

Paper - IV

[Applied Pharmaceutics - II]

[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 Write a detailed note on evaluation of tablets.

OR

Discuss the following -

- i) Types of Tablet Coating.
- ii) Formulation of Coating Solution.

Q. 2 Outline various advantages and disadvantages of capsule dosage form. Also enlist various sizes of capsules.

OR

Discuss quality control and storage of capsule dosage forms in detail.

Q. 3 Write a note on the following in context with liquid dosage forms -

- i) Vehicles and stabilizers.
- ii) Suspending and emulsifying agents.

OR

Discuss the mechanism of drug penetration and factors influencing penetration.

Q. 4 Discuss the following -

- i) Formulation of Parenteral Products.
- ii) Isotonicity and methods of its adjustment.

P.T.O.

OR

Describe formulation and methods of preparation of ophthalmic products.

- Q. 5** Outline the importance of micro encapsulation in pharmacy, also discuss air suspension technique of micro encapsulation.

OR

Discuss the following techniques of micro encapsulation -

- i) Coacervation.
- ii) Spray drying and spray congealing.

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