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24-PC-23

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

PHARMACEUTICAL CHEMISTRY

Paper - III

[Principles of Pharmacy - 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 five questions. Each question carries an internal choice.
Each question carries **15 marks**.

- Q. 1 a)** Explain Non-Newtonian type of flow with rheograms, mechanisms and suitable examples.
b) Write a detailed note on Thixotropy.

OR

- a)** Discuss various factors influencing viscosity.
b) Describe working of any two types of viscometer.

- Q. 2 a)** What are Suspensions ? Discuss interfacial properties of suspensions.
b) Discuss theories of Emulsification.

OR

- a)** Write methods used for preservation of Emulsions.
b) Discuss drug diffusion in coarse disperse system.

- Q. 3** Write detailed note on **any two** -

- i) Preparation of Nano capsules.
- ii) Liposomes.
- iii) Rectal Route of Administration.
- iv) Buccal Route of Administration.

- Q. 4 a)** Classify polymers on the basis of source and structure.

P.T.O.

b) Write pharmaceutical application of polymers.

OR

a) Illustrate molecular weight determination of polymers from solution viscosity.

b) Discuss in detail polymers as thickening agents.

Q. 5 Write detailed note on **any two** -

i) Elastomers.

ii) Biomedical polymers.

iii) Glass transition temperature.

iv) Configuration of polymer chains.

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