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BINA CHOWDHURY CEN

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MPH 102 T

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2022

M.Pharm. 1st Semester (End-Term) Examination

Pharmaceutics

DRUG DELIVERY SYSTEM

(New Regulation w.e.f. 2017-18)

Full Marks - 75

Time - Three hours

The figures in the margin indicate full marks for the questions.

A. Answer all:

 $(10 \times 2 = 20)$

- 1. Differentiate Sustained and Controlled Release systems?
- 2. What do you mean by Low-Density Systems of GRDDS?
- 3. What is telepharmacy?
- 4. Compare and contrast Matrix and Reservoir systems.
- 5. Differentiate Drop on drop deposition and Drop on solid deposition in 3D printing?
- 6. Explain degree of Polymerization.
- 7. What are bioelectronic medicines?
- 8. What is the use of PSA in TDDS systems?
- 9. What are the therapeutic interests to prolong the gastric residence time of a pharmaceutical dosage form?
- 10. What are single shot vaccines?

[Turn over

B. Answer any seven.

 $(7 \times 5 = 35)$

- 11. Explain different theories of mucoadhesion.
- 12. Write a short note on Personalized medicine.
- 13. Express pH-activated drug delivery Systems.
- 14. Explain the formulation of an osmotic activated drug delivery system.
- 15. Explain briefly about components of TDDS.
- 16. Briefly describe general pathways for ocular absorption.
- 17. Elaborate briefly the barriers for protein and peptide drug delivery.
- 18. Write a short note on uptake of antigens.
- 19. Brief about some important properties of polymer to be considered for drug delivery formulation.
- C. Answer any two.

 $(2 \times 10 = 20)$

- 20. Briefly explain different biological factors influencing the design of CR/ SR products.
- 21. Enumerate different technologies or systems used to develop GRDDS.
- 22. Write in brief about the procedures of different important parameters, generally tested for TDDS.