

Department of Pharmaceutical Technology
Jadavpur University, Kolkata-700032.

M.Pharm (Industrial Pharmacy)/ 1st year/ 1st Sem/Time 3 hrs/ FM 75/ 2024-25
Course: Novel Drug Delivery Systems Code: MIP103T

Q1. Answer the following questions (Question 1 is Compulsory) 10x2M=20 Marks

- a. Write down the type of dosage forms which are used as mucoadhesive DDS.
- b. Write down the composition of mucus.
- c. Give the routes of applications of mucoadhesive DDS.
- d. Define backing membrane.
- e. Give example of plasticizer used in TDDS.
- f. Name two vesicular drug delivery systems.
- g. Write two advantages of magnetite as a drug delivery system.
- h. How XRD will help to know incorporation of drug inside a dosage form.
- i. What will be in X-axis and Y-axis for a FTIR plot?
- j. Discuss on Winsor types of micro emulsions.

Long Answer Questions 2 x 10Marks = 20Marks (Answer 2 out of 3)

- Q2. Describe magnetite microsphere preparation and their evaluations in details.
- Q3. How resealed erythrocyte is prepared? How are they evaluated?
- Q4. Write a detailed discussion on gene therapy.

Short Answer Question 7 x 5 Marks = 35 Marks (Answer 7 out of 9)

- Q5. Explain mucoadhesion mechanism with diagram.
- Q6. Write a note on DPI as pulmonary delivery device.
- Q7. Write short note on obstacles to ocular delivery.
- Q8. Write down the factors affecting the delivery of mucoadhesive dosage form.
- Q9. Give the merits of TDDS over oral and parenteral drug delivery systems.
- Q10. Give the advantages of tooth paste over tooth powder.
- Q11. Write down the formulation consideration of vanishing cream.
- Q12. Give a note on diffusion controlled release systems.
- Q13. Write short note on biodegradable polymer.