

Subject: Pharmaceutics

Paper Code: BP-704T

Paper Name: Novel Drug Delivery System

Time: 3 hours

Max Marks: 75

Note : Question paper is divided in two sections A&B. Attempt all section as per instruction.

SECTION- A

Note: Answer any five questions in about 150 words. Each question carries 7 marks.

1. Write a short note on nebulizers.
2. Give the pharmaceutical application of microencapsulation.
3. Discuss activation modulated drug delivery systems.
4. Write a note on monoclonal antibodies.
5. Explain the concept of controlled drug delivery system
6. Discuss the concept of osmotic pump.
7. How permeation enhancers promotes dermal penetration of drug.
8. Define the microencapsulation with advantages and disadvantages.
9. Discuss the properties of drugs relevant to controlled release formulations.
10. Write down the application of polymers in the formulation of controlled drug delivery.

SECTION-B

Note: Answer any four questions in detail. Each question carries ten marks.

1. Explain the concept of controlled drug delivery system and approaches to design them.
2. Explain the intra-ocular barriers and method to overcome them.
3. Discuss the basic components of TDDS. Discuss various factors affecting drug permeation through skin, in details.
4. Write a detail note on approaches for GRDDS(Gastro-retentive drug delivery system).
5. Discuss the nasal-pulmonary route of drug delivery. Give a note on the formulation of inhalers
6. Write down the development and applications of IUDs (intra uterine devices). Give the advantages and disadvantages of Intrauterine drug delivery systems.
7. Explain the following : (a) Liposomes (b) Niosomes
8. Discuss transmucosal permeability and formulation consideration of buccal delivery system.

