

Time: Three Hours

Max. Marks: 75 Marks

Customized Drug Delivery System

Q.P. CODE: 5110

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary.

LONG ESSAY (Answer any Three)

3 X 10 = 30 Marks

1. What are 'Controlled' and 'Sustained release dosage forms'? Discuss in detail different pharmacokinetic designs for drug delivery systems.
2. What are buccal drug delivery systems? Explain the formulation and evaluation of buccal drug delivery systems.
3. Define magnetic microspheres. Discuss the methods of formulation and evaluation of the magnetic microspheres.
4. Discuss in detail activation modulated drug delivery systems.

SHORT ESSAY (Answer any Nine)

9 X 5 = 45 Marks

5. Write the significance of 'Electroporation' and 'Micro needle based devices' for the delivery of drugs through transdermal route.
6. Explain pulsatile drug release systems.
7. Write a note on characterization of polymers.
8. Explain the formulation science and evaluation aspects of eye cosmetics.
9. Write a note on specialized pharmaceutical emulsions.
10. Discuss the formulation and evaluation of research erythrocytes.
11. Write a note on stability and destabilization of protein formulations.
12. Explain about the importance of categorization of patients for personalized medicine.
13. What are solid lipid nanoparticles? Explain the evaluation aspects of solid lipid nanoparticles.
14. Discuss liquid sustained release systems.

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