

[Time: 3 Hours]

[Max. Marks: 75]

Advances in Drug Delivery System - I

Q.P. CODE: 5126

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 Transdermal DDS? Explain the mechanism of action of permeation enhancers. Add a note on evaluation of TDDS.
2. Define protein and peptide delivery. Explain the biomedical importance and need of protein and peptide delivery.
3. Describe rate controlled DDS. Classify it and discuss any two types in detail.
4. Define polymers. Classify them with examples. Explain evaluation of polymers.

SHORT ESSAY (Answer any Nine)

9 X 5 = 45 Marks

5. Describe different types of controlled release drug delivery systems.
6. Write a note anatomy and physiology of skin.
7. Write a note on osmotic pump.
8. Explain evaluation of buccal drug delivery systems.
9. Explain in brief the mechanism of drug delivery from controlled release formulation.
10. Explain in brief biological approaches for formulations of CRDDS.
11. Write short notes on vaccines drug delivery systems.
12. Define mucoadhesion. Explain polymers used in mucoadhesive drug delivery systems.
13. Explain enzyme activated /pH sensitive DDS.
14. Define ocular drug delivery. Explain the formulation of ocuserts.

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