

[Time: 3 Hours]

[Max. Marks: 75]

Drug Delivery System**Q.P. CODE: 5128**

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. Explain the physicochemical properties of drug relevant to sustained release formulation.
2. Concept of gastro retentive drug delivery system with a note on polymers used GRDDS.
3. Explain the evaluation of Trans dermal patches.
4. Concept and design of elementary osmotic pump. Enlist the osmogens.

SHORT ESSAY (Answer any Nine)**9 X 5 = 45 Marks**

5. Advantages and disadvantages of ocular drug delivery system
6. Explain briefly 3D printing of pharmaceuticals.
7. Write a note on personalized medicine.
8. Explain concept of feedback regulated system.
9. Biological factors affecting the sustained release formulations
10. Monoclonal antibodies for drug targeting
11. Permeation enhancers used in transdermal drug delivery system
12. Enlist the different polymers used in the controlled drug delivery systems.
13. Protein drug delivery through parental route
14. Mechanically activated drug delivery system

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