

[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. Write the advantages and disadvantages of CRDF. Explain diffusion control drug delivery systems.
2. Describe about natural and biodegradable polymers.
3. Explain development and evaluation of rectal drug delivery systems with applications.
4. Give and explain the approaches for the designing of activation-modulated controlled drug delivery systems.

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

5. Write a brief note on theories of mucoadhesion.
6. Explain biological factors to be considered for development of nasal drug delivery systems.
7. Briefly explain the evaluation of controlled release drug delivery system.
8. Explain IUD.
9. Write a note permeation enhancers.
10. Development of Hydrodynamically balanced systems for controlled drug delivery systems
11. Explain dissolution controlled drug delivery systems.
12. Write a note mucoadhesive polymers.
13. Give concept and applications of controlled drug delivery system.
14. Give and explain the approaches for the designing of feedback regulated controlled drug delivery systems.

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