



Your answers should be specific to the questions asked.  
Draw neat labeled diagrams wherever necessary. Answer all questions

**LONG ESSAY (Answer any TWO)****2 X 20 = 40 Marks**

1. Discuss the diffusion controlled oral drug delivery system
2. Write an account on Targeted drug delivery with special focus on nanoparticles and monoclonal antibodies
3. Discuss the in-vitro evaluation models for oral drug delivery systems

**SHORT ESSAY (Answer any FIVE)****5 X 10 = 50 Marks**

4. Give an account of biodegradable polymers used in the formulation of controlled drug delivery systems
5. Discuss the design & development of ocuserts
6. Discuss the suspension based injectable controlled release formulations
7. Explain the evaluation methods of transdermal drug delivery systems
8. Discuss the formulation of targeted drug delivery systems
9. Explain coacervation phase separation technique

**SHORT NOTES****2 X 5 = 10 Marks**

10. Write a note on feed back regulated drug delivery systems
11. Nasal drug delivery

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