

LONG ESSAY (Answer any Three) www.FirstRanker.com**3 X 10 = 30 Marks**

1. Explain different system parameters effecting drug release through controlled drug delivery systems.
2. Define "nanoparticles". Classify them. Explain any two methods of preparation in detail.
3. Explain the different formulation aspects that should be considered in the preparation of transdermal patches.
4. What are polymers? Classify them. Explain in detail the applications of biodegradable and non-biodegradable polymers in drug delivery.

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

5. Briefly discuss different targeting techniques with reference to levels of targeting.
6. Write a note on gene therapy.
7. Explain the formulation and evaluation of nasal drug delivery systems.
8. Write the applications of bioelectronic medicines in drug delivery.
9. Describe the formulation and evaluation aspects of skin ointments.
10. Describe various causes for protein destabilization.
11. Discuss feedback regulated drug delivery systems.
12. What are monoclonal antibodies? Give their applications.
13. Write the significance of iontophoresis in Transdermal delivery of drugs.
14. Discuss the applications of microemulsions in drug delivery.

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