



[Time: 3 Hours]

[Max. Marks: 75]

Modern Pharmaceutics

Q.P. CODE: 5129

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. Discuss various methods for studying drug-excipients interaction.
2. Explain in detail the concept and parameters of optimization in formulation.
3. What are the cGMP considerations for parenteral dosage forms?
4. Define Validation. Explain Process Validation and Operational Validation.

SHORT ESSAY (Answer any Nine)

9 X 5 = 45 Marks

5. Define solid dispersion. Classify and explain any two methods of preparation.
6. Discuss applications of optimization in formulation.
7. Explain formulation of small volume parenterals.
8. Explain compaction profile of tablet.
9. Write briefly about Heckel Plots and Peppas's Plot.
10. Explain concept of TQM.
11. Explain validation of Master Plan.
12. Explain 2^2 factorial designs.
13. Write note on sales forecasting.
14. Explain stability of emulsions.

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