

Eirstranker's choice LONG ESSAY (Answer any Three)www.FirstRanker.com www.FirstRakker.eom www.FirstRakker.eom

- Write a brief note on solubility. Discuss in detail different techniques to improve the solubility of poorly soluble drugs.
- 2. Explain preformulation studies for the development of liquid dosage form.
- Discuss the role of formation additives in development and processing of dosage form.
- Outline the In-Vitro and In-Vivo correlation of dissolution studies and write about levels of correlations.

SHORT ESSAY (Answer any Nine)

9 X 5 = 45 Marks

- Write about optimization method using simplex design.
- Explain co-solvency and complexation methods.
- Discuss the methods to predict the flow properties of pharmaceutical powders.
- 8. Explain micellar solubilisation and hydrotrophy with suitable examples.
- Explain In-vitro dissolution testing of controlled release products.
- 10. Write a note on data handling and correction factor.
- 11. Explain characterization of crystals using DSC and XRD studies.
- 12. Discuss the methods of drug-excipient compatibility studies.
- Write a brief note on new additives used in Pharmaceutical Industry.
- 14. Write a note on solution stability.

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