



3 X 10 = 30 Marks

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  What do you understand by the term preformulation? Explain in detail physical and chemical characterization of a new drug molecule.
- 2. Explain steps involved in Product Validation.
- 3. Explain the physics of tablet compression.
- 4. What are SMEDDs? Explain in detail composition and stability aspects of SMEDDs.

## SHORT ESSAY (Answer any Nine)

9 X 5 = 45 Marks

- 5. Add a note on compaction profiles and explain graphically.
- 6. Explain significance of Higuchi and peppas model.
- 7. Explain essential components of TQM.
- 8. Explain fragmentation/deformation at point of bonding.
- 9. Explain retrospective validation and re-validation.
- 10. Define inventory management. Explain in detail.
- 11. Explain in brief solubility enhancement techniques.
- 12. Explain phases in production planning.
- 13. Explain the concept of TQM.
- 14. Explain factors such as applied pressure and lubricant on tablet.

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