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Total No. of Questions: 06

M.Pharmacy (Pharmaceutics) (2017 & Onwards) (Sem.-1)

MODERN PHARMACEUTICS

Subject Code: MPH-103T Paper ID: [74659]

Time: 3 Hrs. Max. Marks: 75

INSTRUCTIONS TO CANDIDATES:

- 1. Attempt any FIVE questions out of SIX questions.
- 2. Each question carries FIFTEEN marks.
- 1. a) What are SMEDDS? Mention the reasons for preparing them. Give a brief account of the preformulation studies conducted on them.
 - b) Explain the response surface method used for formulation optimization.
- 2. a) What is validation and its necessity? Give an account of concurrent validation for tablet dosage form.
 - b) Comment on the evaluation parameters for LVPs.
- 3. a) Comment on the cGMP requirements for building layout of a hard gelatin capsule manufacturing unit.
 - b) Mention the key considerations and write briefly about sales forecasting in pharmaceutical industry.
- 4. a) Enumerate different approaches used for enhancing solubility of drugs. Briefly discuss any one method.
 - b) Differentiate between plastic and elastic deformation of solid particles. Giving examples of such materials, explain their compaction behavior.
- 5. a) Enumerate dissolution variables and the parameters of dissolution. Explain f 1 and f 2 tests and their interpretation.
 - b) What is the significance of Heckle Plot? Discuss the nature of Heckle Plot for substances of different nature.
- 6. Write short notes on:
 - a) Stability testing of suspensions.
 - b) Chi square test.
 - c) Inventory control.

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