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Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary. Answer all questions

LONG ESSAY (Answer any TWO)

2 X 20 = 40 Marks

- What are solid state studies with reference to pre-formulation? 1.
- 2. Explain with lay-out, facilities and steps in sterile manufacturing
- 3. Explain extraction, isolation of gelatin, manufacturing and evaluation of hard gelatin capsules

SHORT ESSAY (Answer any FIVE)

5 X 10 = 50 Marks

- What are the causes of fire in pharma industry? How will you prevent fire?
- 5. How will you perform pilot study of oral liquids
- 6. How Chewable tablets are prepared and evaluated?
- 7. Explain the importance of cosolvency
- 8. Explain classical optimization
- 9. What are the impacts of GATT and WTO on Indian pharma industry?

SHORT NOTES 2 X 5 = 10 Marks

- 10. Suntan preparations
- Packing and storage condition of lipsticks 11.

