

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**

1. Explain how preformulation studies of liquid oral is undertaken
2. Describe the pilot plant scale of studies for tablet dosage form
3. Explain the various materials handling systems and maintenance of material handling equipment in pharm industries

SHORT ESSAY (Answer any FIVE)**5 X 10 = 50 Marks**

4. Explain the formulation of sub lingual tablet
5. Write a short note on inventory management in pharmaceutical industry
6. List out the industrial hazards and their preventive measures in a pharm industry
7. Explain the stores management in pharm industry
8. Explain optimization parameters and statistical designs
9. Write a brief note on GMP in parenteral production

SHORT NOTES**2 X 5 = 10 Marks**

10. Salient features of GATT and TRIPS
11. Explain Total Quality Management

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