

[Time: 3 Hours]

[Max. Marks: 100]

**Preformulation and Production Management**  
**(Revised Scheme 4)**

**Q.P. CODE: 9337**

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary. Answer any ten questions.

**LONG ESSAY (Answer any TEN)**

**10 X 10 = 100 Marks**

1. Write the forces and factors involved in the strength of tablets.
2. Explain inventory evaluation.
3. Write the various optimization parameters for a new drug.
4. Explain centralized and decentralized purchasing system.
5. Write the formulation aspects for chewable tablets and medicated lozenges.
6. Discuss physicochemical parameters of a new drug molecule with respect to different dosage forms.
7. Explain chemical and mechanical industrial hazards.
8. Write the pilot plant scale up for liquid orals.
9. Explain salvaging and disposable scrap and surplus in pharmaceutical industry.
10. What are the essential elements of patents?
11. Write a note on GMP.
12. Discuss various industrial accidents case studies.

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