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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

- 1. Design the commercial production of Phenobarbitone with respect to
 - a) reaction sequences and flow diagram
 - b) material of construction of equipments
 - c) purification procedure
 - d) probable effluents and its management
- 2. a) What are possible industrial hazards? How can they controlled?
 - b) Write a note on plant location
- 3. a) Explain merits and demerits of multipurpose plant vs dedicated plant for bulk drugs with specific examples
 - b) What are various parameters considered for estimation of growth forecast of bulk drug?. Illustrate your answer with examples

SHORT ESSAY (Answer any FIVE)

5 X 10 = 50 Marks

- 4. Explain the Govt policies and regulatory authorities involved in controlling bulk drug production
- 5. Discuss layout and construction commercial aspects of bulk drug production
- 6. Write the concept methodology, applications and limitation of combinatorial synthesis of drug production
- 7. Write the flow diagram and reaction sequence for industrial production of clotrimazole
- 8. Explain commercial production and flow diagram of mebendazole
- 9. Enumerate historical development of bulk drug industry in India

SHORT NOTES 2 X 5 = 10 Marks

- 10. Enumerate effects of multinational companies on bulk drug production of India
- 11. Write notes on a) Private enterprises b) foreign collaboration

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