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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)

- 1. Discuss the importance of undertaking preformulation studies in manufacturing unit
- 2. Write a detailed note on material and maintenance management
- 3. Explain pilot plant scale up technique for capsules

## SHORT ESSAY (Answer any FIVE)

- 4. Write a note on prospective validation
- 5. Write a note on inventory evaluation
- 6. How will you control effluents in pharmaceutical units
- 7. Write briefly on storage conditions followed as per GMP
- 8. State briefly on job enlargement and enrichment
- 9. Write a note on intellectual property rights

## SHORT NOTES

- 10. Co solvency
- 11. EOQ

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5 X 10 = 50 Marks

2 X 5 = 10 Marks

2 X 20 = 40 Marks