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

LONG ESSAY (Answer any TWO)

2 X 20 = 40 Marks

- State the importance of Pilot Plant and its Design. Also state its impact on Streamlining the 1. production.
- 2. Explain the ICH Guidelines, WHO and GMP standards applied for Pharmaceuticals.
- 3. Explain the various Optimization Techniques applied in Pharmaceutical Formulations.

SHORT ESSAY (Answer any FIVE)

5 X 10 = 50 Marks

- 4. Explain the objectives and principles of material handling in a pharmaceutical unit
- 5. State the procedure to manufacture any Biological Product as per D & C Act.
- 6. Indicate the importance of Preventive maintenance for continuous production.
- 7. Explain the monitoring procedure for Fire Hazards in a plant.
- 8. State the Effluent Treatment Procedure followed in a Pharmaceutical manufacturing unit.
- Explain the procedure followed for selection of personnel in formulation unit. 9.

www.FirstRanker.com SHORT NOTES 2 X 5 = 10 Marks

- Human resource management. 10.
- Salient features of ISO 9000. 11.

