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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

- Explain in detail the design of the product, facilities, requirements and equipment validation for a unit dosage solid preparation.
- 2. Explain the factors considered in production planning and inventory control measures followed in Pharmaceutical Manufacturing.
- 3. Draw a sketch of layout for Parenteral manufacturing and explain the service facilities incorporated in it.

SHORT ESSAY (Answer any FIVE)

5 X 10 = 50 Marks

- 4. Explain the safety precautions followed for drugs and chemicals during manufacturing.
- 5. Discuss ICH Guidelines for stability testing of Drugs.
- 6. Explain how the Effluent and other wastes are managed in industry.
- 7. Explain the Optimization methods followed in the production Department.
- 8. Describe the service facilities provided in Pharmaceutical Units.
- 9. Explain the Compilation procedure followed for Biological Production as per D & C Act.

MMM/FilestPeak**** SHORT NOTES $2 \times 5 = 10 \text{ Marks}$

Salient features of Intellectual property rights.

Salient features of ISO 9001. 11.