

- 3. Briefly discuss about filling and sealing machines used in packaging of pharmaceutical products.
- State design of experiments (DOE). Write note on concepts and optimization parameters in DOE.

SHORT ESSAY (Answer any Nine)

9 X 5 = 45 Marks

- Discuss about factorial design in pharmaceutical optimization.
- Brief note on WHO stability guidelines.
- Write note on USFDA's aspects in quality by design.
- Add a note on accelerated stability testing.
- Discuss about classical of optimization.
- 10. Write possible interaction between container and product in pharmaceutical packing.
- Write about the risk assessment in quality by design.
- Brief note on modern packaging techniques.
- 13. List out the evaluation of pharmaceutical packaging materials and containers.
- 14. Give brief note on simplex design.

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