



LONG ESSAY (Answer any Three) www.FirstRanker.com

3 X 10 = 30 Marks

1. Explain the process automation involved in the manufacturing of Soft gelatin capsules.
2. Explain the process of performing the IQ, OQ and PQ a rotary multi station tablet compression machine.
3. Explain the principle and process involved in lyophilization technology used for parenteral products.
4. What are the legal requirements and licenses required for the formulation industry development?

SHORT ESSAY (Answer any Nine)

9 X 5 = 45 Marks

5. Write a note on plastics as packaging materials for pharmaceutical products.
6. Compare and contrast conventional QC procedure and PAT.
7. What are the particle coating techniques available? Explain the equipments used for particle coating.
8. How will you document data from a pharmaceutical manufacturing process?
9. How will you fix limits for a cleaning validation process?
10. Write a note on Form Fill Seal Technology.
11. How do you formulate QTTP for an enteric coated dosage form?
12. Add a short note on prefilled syringes.
13. Discuss the method to determine Product-Package compatibility.
14. Explain the importance of critical quality material attributes.

* * * * *