



Advanced Industrial Pharmacy

(Revised Scheme 4)

Q.P. CODE: 9390

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

1. Describe the process automation technology in pharmaceutical manufacturing.
2. Give a detailed account of industrial hazards and plant safety measures in pharmaceutical industry.
3. Explain the regulatory requirements of TGA and MHRA.

SHORT ESSAY (Answer any FIVE)

5 X 10 = 50 Marks

4. Give the methods and applications of design of experiments.
5. Write a note on the generic drug product development and its approval.
6. Explain how the accelerated stability testing and shelf life calculations are done.
7. Explain the role of co-solvency and solid dispersion in preformulation studies.
8. Explain the records related to container, closure and labeling.
9. Write a note on air and noise pollution and its control in Pharma industry.

SHORT NOTES

2 X 5 = 10 Marks

10. What are the guidelines for stability testing of pharmaceuticals?
11. Differentiate between generic and branded drug products.

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