



[Time: 3 Hours]

[Max. Marks: 75]

Advanced Pharmaceutical Technology - II

Q.P. CODE: 5165

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary.

LONG ESSAY (Answer any Three)

3 X 10 = 30 Marks

1. Explain pharmacopoeial specifications, tests, standards for packing materials.
2. Define stability testing. Explain accelerated stability studies with one method of predicting shelf life.
3. Write in details about the USFDA's aspects in quality by design.
4. Discuss the methods and applications of optimization techniques in pharmaceuticals.

SHORT ESSAY (Answer any Nine)

9 X 5 = 45 Marks

5. State the packaging machines used filling liquids.
6. Discuss about modern pharmaceutical packing technology.
7. Write about the solid state drug stability testing.
8. State the packaging machines used filling of semisolid preparations.
9. Write note on label and types of labeling systems in pharmaceutical packing technology.
10. Describe about the target product profiles and critical quality attributes in QbD.
11. State the tools involved in pharmaceutical QbD.
12. Write short note on DOE in pharmaceutical optimization.
13. State an example involved in factorial design of pharmaceutical optimization.
14. Write short note on strategies to prolong the shelf life of pharmaceutical products.

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