

[Time: 3 Hours]

[Max. Marks: 75]

Modern Pharmaceutics**Q.P. CODE: 5129**

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. Write the preformulation studies for new drug molecule.
2. Define and classify of validation. Write detail protocol of autoclave validation.
3. Explain the fundamental principles involved in the Design of experiments.
4. Explain the physics of tablet compression.

SHORT ESSAY (Answer any Nine)**9 X 5 = 45 Marks**

5. Explain the Heckle plot and write its significance.
6. Explain the term EOQ and ROQ in purchasing of raw materials.
7. Explain the significance of Student' t' test.
8. Define optimization. Classify and explain any one method.
9. Explain the photostability testing of new drug.
10. Write the important principles of TQM.
11. Protocol for validation of wet granulation process.
12. Enlist the solubility enhancement techniques. Explain any one technique.
13. Define standard deviation and its significance.
14. Different methods to improvement of compaction behavior of powder bed.

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