



[Time: 3 Hours]

[Max. Marks: 75]

**Advances Pharmaceutical Technology**

**Q.P. CODE: 5127**

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 various physicochemical properties under consideration of new drug molecule for designing dosage forms.
2. Discuss the various drug and excipient interactions.
3. Explain in details theories involved in tablet compression and compaction.
4. Formulation and evaluation of hard gelatin capsules

**SHORT ESSAY (Answer any Nine)**

**9 X 5 = 45 Marks**

5. Describe in details pyrogen testing of parenterals.
6. Write a note on inclusion complexation technique.
7. Explain ion exchange resins as a novel polymer.
8. Write a note on hydrogels.
9. State briefly cGMP regulations of Parenterals technology
10. Describe evaluation of large volume parenterals.
11. Explain formulation of soft gelatin capsules.
12. Describe classification and application of synthetic polymers.
13. Write a note on TGA in preformulation studies.
14. Discuss briefly film coating polymers.

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