

**Advanced Pharmaceutical Technology**  
**(Revised Scheme 4)**

**Q.P. CODE: 9368**

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. Explain the liquid and semisolid packaging machines.
2. Explain the various physicochemical properties under consideration of new drug molecules for different dosage forms.
3. Explain the factors affecting selection of excipients and drug-excipient interactions.

**SHORT ESSAY (Answer any FIVE)**

**5 X 10 = 50 Marks**

4. Give the compaction profiles and energy involved in compaction.
5. Give a note on formulation and evaluation of soft gelatin capsules.
6. Explain the basic principles of stability testing as per the ICH guidelines.
7. Explain the different statistical designs used in optimization techniques.
8. Give a brief note on trademark and its protection.
9. Explain the principles and elements of total quality management.

**SHORT NOTES**

**2 X 5 = 10 Marks**

10. Containers for liquid dosage forms
11. Differential scanning calorimetry

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