

INDUSTRIAL PHARMACY – I (GUESS PAPER 2025–26)

SECTION A (10 × 2 = 20)

1. Define preformulation studies.
2. What is BCS classification?
3. Define superdisintegrants with examples.
4. What is Bloom strength?
5. Define lyophilization.
6. What is isotonicity?
7. Define aerosol system.
8. Define Angle of Repose.
9. What is polymorphism?
10. Define weathering of glass.

SECTION B (Attempt any TWO – 2 × 10 = 20)

1. Explain concept and importance of preformulation studies. Discuss preformulation parameters.
2. How are drugs classified under BCS? Explain significance of BCS classification.
3. Describe wet granulation method of tablet formulation.
4. Explain method of preparation and evaluation of soft gelatin capsules.

SECTION C (Attempt any FIVE – 5 × 7 = 35)

1. Describe various quality control tests for tablet dosage forms.
2. Explain formulation and evaluation of parenteral products.
3. Elaborate manufacturing of hard gelatin capsules with diagrams.
4. Explain lyophilization process with advantages and applications.
5. Describe formulation considerations of ophthalmic preparations.
6. Explain pharmaceutical aerosols – components and evaluation.
7. Discuss packaging materials with quality control tests of glass.

■ QUESTION FREQUENCY ANALYSIS (2019–2025)

Topic	Times Asked	Exam Weight
Preformulation Studies	7 / 7	■■■■■
BCS Classification	6 / 7	■■■■■
Tablet Manufacturing & QC	6 / 7	■■■■■
Capsules (Hard & Soft)	6 / 7	■■■■■
Parenteral Products	5 / 7	■■■■■
Pharmaceutical Aerosols	5 / 7	■■■■■
Lyophilization	5 / 7	■■■■■
Packaging Materials (Glass)	5 / 7	■■■■■
Ophthalmic Preparations	4 / 7	■■■