

INDUSTRIAL PHARMACY – I (BP502T)

GUESS PAPER (Based on Repeated University Questions)

SECTION A – Attempt all questions (10 × 2 = 20)

- a) Define preformulation studies.
- b) Classify drugs according to BCS classification.
- c) What is the role of binders in tablet formulation?
- d) Define super-disintegrants with examples.
- e) What do you mean by Bloom Strength?
- f) Define isotonicity.
- g) Enlist components of pharmaceutical aerosol system.
- h) Define lyophilization.
- i) What is polymorphism?
- j) Define weathering of glass.

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

- a) Explain concept and importance of preformulation studies. Discuss preformulation parameters for conventional dosage forms.
- b) Describe various quality control tests for tablet dosage forms as per pharmacopoeia standards.
- c) Classify parenteral products and explain evaluation tests for parenterals.

SECTION C – Attempt any FIVE ($5 \times 7 = 35$)

- a) Explain various processing problems of uncoated tablets and their remedies.
- b) Illustrate the process of lyophilization with a well-labeled diagram.
- c) Describe the manufacturing process of hard gelatin capsules.
- d) Discuss quality control tests for pharmaceutical aerosols.
- e) Explain formulation and evaluation of ophthalmic preparations.
- f) Discuss formulation and evaluation of syrups.
- g) Explain official quality control tests of glass used as packaging material.

Question Repetition Chart (2020–2025)

Topic / Question	Repeated Years
Preformulation studies	2020–2025 (Every year)
BCS classification	2021–2025
Tablet formulation & QC tests	2020–2025
Parenteral products & evaluation	2021–2025
Lyophilization	2020–2025
Hard gelatin capsules	2020–2025
Pharmaceutical aerosols	2021–2025
Glass as packaging material	2020–2025