

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM – SEMESTER – 6 EXAMINATION – SUMMER-2025

Subject Code: BP605TP**Date: 20-05-2025****Subject Name: Industrial Pharmacy I****Time: 10.30 AM TO 01.30 PM****Total Marks: 80****Instructions:**

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- | | | |
|------------|--|-----------|
| Q.1 | (a) What is BCS classification? How does it affect development of dosage form? | 06 |
| | (b) Define Pre-formulation studies. Explain steps involved in Pre-formulation studies in tablet. | 05 |
| | (c) Explain IPQC test for tablets. | 05 |
| Q.2 | (a) Write a note on compression technologies for tablet with suitable diagram. | 06 |
| | (b) Explain commonly used tablet diluents. Explain any one in details. | 05 |
| | (c) Classify types of coating and write their objective. | 05 |
| Q.3 | (a) Explain processing problems and their remedies in tablet. | 06 |
| | (b) Explain in details of different types of dissolution test apparatus. | 05 |
| | (c) Discuss production of hard gelatin capsule cell preparation with flow diagram . | 05 |
| Q.4 | (a) What are pyrogens? Explain LAL test. | 06 |
| | (b) Compare between LVP and SVP | 05 |
| | (c) Write a short note on Prefilled syringes. | 05 |
| Q.5 | (a) Define aerosol. Explain advantages, disadvantages and use of pharmaceutical aerosol. | 06 |
| | (b) Explain evaluation of aerosol in details. | 05 |
| | (c) Write a note on propellant and water based system. | 05 |
| Q.6 | (a) Explain packaging material. Write a short note on Glass as a packaging material. | 06 |
| | (b) Define ophthalmic preparation. Explain types, advantages and disadvantages of it. | 05 |
| | (c) Write a short note on liquid oral dosage form. | 05 |
| Q.7 | (a) Which are the evaluation parameters for sunscreen and shampoo? | 06 |
| | (b) Write a short note on lipstick . | 05 |
| | (c) Differentiate between vanishing and cold cream. | 05 |
