

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM - SEMESTER- 6 EXAMINATION – SUMMER -2023

Subject Code: BP605TP**Date: 28/06/2023****Subject Name: Industrial Pharmacy I****Time:10.30 a.m. to 1.30 p.m.****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. **05**
(c) Write on any two: 1) Diluents 2) Disintegrant 3) Binders. **05**
- Q.2** (a) Describe multistation rotary tablet compression cycle with diagram. **06**
(b) Discuss in brief Pharmacopoeial tests for tablet. **05**
(c) Discuss defects observed in tablet compression process. **05**
- Q.3** (a) Discuss different film coating defects. **06**
(b) What are various instabilities of emulsions? Discuss them with their causes and precautions to avoid them. **05**
(c) What are the role of polyethylene oxide, Eudragit and MCC in extrusion and Pelletization? **05**
- Q.4** (a) Compare hard gelatin capsules with soft gelatin capsules. **06**
(b) Discuss formulation of soft gelatin capsule shell. **05**
(c) Write a brief note on Sunscreen. **05**
- Q.5** (a) Comment on the statement: (2 Marks Each) **06**
i. Sterility is maintained strictly in blow fill & seal technology.
ii. Parenterals Filling must be done in Class 100 area.
iii. Liquid paraffin is oil of choice for oily injections and Parenteral emulsions
(b) What are pyrogens? Explain the sources of pyrogens in Parenterals. Discuss principle and method of LAL test. **05**
(c) Describe freeze dried products, its production & application. **05**
- Q. 6** (a) Discuss the role and properties of propellants. **06**
(b) Describe filling techniques of aerosols. **05**
(c) Draw well labeled diagram for aerosol packs. Explain the different parts of it. **05**
- Q.7** (a) Discuss different methods for evaluation of packaging. **06**
(b) Explain tamper proof packaging. **05**
(c) Write a note on ready to use pellets available in market. **05**
