

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM - SEMESTER- 6 EXAMINATION – SUMMER -2020

Subject Code: BP605TP**Date: 02-11-2020****Subject Name: Industrial Pharmacy – I****Time: 10:30 AM TO 1:30 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) Define Preformulation studies. Explain steps involved in Preformulation studies. **06**
(b) Describe in detail quality control for pharmaceutical aerosol products. **05**
(c) Write a detail note on: 1. Parenteral suspension 2. Cryoprotectants **05**
- Q.2** (a) What are pyrogens? Explain the sources of pyrogens in parenterals. Discuss principle and method of LAL test. **06**
(b) What are sunscreen preparations? Discuss their formulation and evaluation in brief. **05**
(c) Write a brief note on stability aspects of packing. **05**
- Q.3** (a) Comment: Sedimentation rate of flocculated suspensions is faster than deflocculated suspensions. Differentiate flocculated and deflocculated suspension. **06**
(b) Discuss defects observed in tablet compression process. **05**
(c) Explain quality control tests of gelatin. **05**
- Q.4** (a) Enlist various container uses for Aerosol. Explain various types of actuator and valve used in aerosol. **06**
(b) Discuss in brief Pharmacopoeial tests for tablet. **05**
(c) Discuss remedies to overcome degradation due to hydrolysis and oxidation in pharmaceutical dosage form. **05**
- Q.5** (a) What are various instabilities of emulsions? Discuss them with their causes and precautions to avoid them **06**
(b) Explain BCS classification of Drugs and its significance in Preformulation studies with suitable examples. **05**
(c) Write in brief note on formulation of ophthalmic dosage form. **05**
- Q. 6** (a) Classify cosmetics. Write short note on formulation, manufacturing and evaluation of shampoos **06**
(b) Discuss different film coating defects. **05**
(c) Write a note on excipients and additives used in the capsule formulation **05**
- Q.7** (a) Describe different types of glass as a packaging material for parenteral. Explain water attack test. **06**
(b) What is Pelletization? Discuss any one pelletization technique. **05**
(c) Write a detailed note on storage and purity of W.F.I. **05**
