

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Ph. – SEMESTER- VI • EXAMINATION – WINTER -2021

Subject Code: BP605TP**Date:03/12/2021****Subject Name: INDUSTRIAL PHARMACY-I****Time: 2:30 PM to 5:30 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. Write a note on physicochemical properties related to solubility study in preformulation. **06**
- (b) Discuss in brief the Parenteral suspension. **05**
- (c) Describe in detail quality control for pharmaceutical aerosol products. **05**
- Q.2** (a) What are sunscreen preparations? Discuss their formulation and evaluation in brief. **06**
- (b) Explain preparation and storage of W.F.I. **05**
- (c) What are pyrogens? Explain the sources of pyrogens in parenterals. Explain the principle of LAL test for pyrogen testing. **05**
- Q.3** (a) Discuss in brief Pharmacopoeial tests for tablet. **06**
- (b) Give the reasons for enteric coating of tablet. Enlist enteric and non enteric film former materials. Write note on plasticizer. **05**
- (c) Discuss defects observed in tablet compression process. **05**
- Q.4** (a) Classify cosmetics. Write short note on formulation, manufacturing and evaluation of shampoos **06**
- (b) What is Pelletization? Discuss factors affecting pellet properties. **05**
- (c) Define: Pharmaceutical aerosols. Explain the role of propellants in an aerosol system. Classify propellants and describe liquefied gas propellants in brief. **05**
- Q.5** (a) Explain quality control tests of gelatin. **06**
- (b) Discuss in brief the additives used in liquid dosage forms **05**
- (c) Comment: Sedimentation rate of flocculated suspensions is faster than deflocculated suspensions. Differentiate flocculated and deflocculated suspension. **05**
- Q. 6** (a) Discuss remedies to overcome degradation due to hydrolysis and oxidation in pharmaceutical dosage form. **06**
- (b) Describe the Rotary die process for manufacturing of soft gelatin capsule. **05**
- (c) Explain size of capsules and write a note on problem and remedies in capsules. **05**
- Q.7** (a) What are various instabilities of emulsions? Discuss them with their causes and precautions to avoid them **06**
- (b) Discuss the powder glass test and water attack test for packaging in Pharmaceuticals. **05**
- (c) Write in brief note on formulation of ophthalmic dosage form. **05**
