

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM – SEMESTER – 7- EXAMINATION –WINTER - 2018

Subject Code:2270002**Date: 17/11/2018****Subject Name: Pharmaceutical Technology 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) Comment on the following: **06**
1. Liquid paraffin is oil of choice for oily injections and parenteral emulsions.
2. Cyro-protectants are to be added in freeze dried products.
3. I.V. is most popular route of parenteral administration.
- (b) What are clean rooms? Discuss the standards for clean rooms. Enumerate criteria for environmental monitoring of clean rooms. **05**
- (c) Write a note on FFS technology. **05**
- Q.2** (a) Write importance of the following in liquid dosage form: Stabilizer, Preservative and vehicle/solvent. **06**
- (b) Explain in brief: tincture, extract, infusion with example. **05**
- (c) Describe the evaluation of suspensions and emulsions. **05**
- Q.3** (a) Give the ideal requirements of the semisolid bases. Discuss the evaluation parameters of semi-solid formulations. **06**
- (b) Classify routes of drug penetration through skin. Discuss factors influencing penetration of drugs through skin. **05**
- (c) Explain in brief displacement value. Enumerate ideal characteristics of suppository bases. **05**
- Q.4** (a) Describe filling techniques of aerosols. **06**
- (b) Enlist various containers used for aerosol. Explain various types of actuators and valve used in aerosol. **05**
- (c) Describe in detail quality control for pharmaceutical aerosol products. **05**
- Q.5** (a) What are sunscreen preparations? Discuss their formulation and evaluation in brief. **06**
- (b) Differentiate vanishing cream and cold creams. **05**
- (c) Write a brief note on baby care products. **05**
- Q. 6** (a) Describe in short: Parenteral nutrients, freeze dried parenteral products. **06**
- (b) Discuss storage and quality control test for WFI. **05**
- (c) Write a short on prefilled syringes. **05**
- Q.7** (a) Enumerate different type of record maintain in pharmaceutical company as per GMP. Write short note on batch manufacturing record. **06**
- (b) Discuss the premises facility requirements as per GMP. **05**
- (c) Write a short note on SOP. **05**
