

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.**

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|-------------|------------|--|-----------|
| Q.1 | (a) | Comment on the following:
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. | 06 |
| | (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 |
