

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Ph. - SEMESTER- 7• EXAMINATION – WINTER -2023

Subject Code: 2270002**Date: 04/12/2023****Subject Name: Pharmaceutical Technology-I****Time: 10:30am to 01:30pm****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) Explain various types of actuators and valve in aerosols. | 06 |
| | (b) Classify Propellent. Describe role of Propellent in aerosol. | 05 |
| | (c) Explain manufacturing techniques of Aerosol. | 05 |
| Q.2 | (a) Write a brief note on ointment base. | 06 |
| | (b) Explain factor affecting drug penetration in skin. | 05 |
| | (c) Enumerate ideal characteristics of suppository bases. Describe any one method of manufacturing suppositories in detail. | 05 |
| Q.3 | (a) Describe Total parenteral Nutrients | 06 |
| | (b) Discuss FFS technology. | 05 |
| | (c) Write short note on prefilled syringes. | 05 |
| Q.4 | (a) Describe formulation and evaluation of Suspension. | 06 |
| | (b) Short note on Multiple emulsion. | 05 |
| | (c) Write importance of following in liquid dosage form: stabilizer, preservatives. | 05 |
| Q.5 | (a) What are clean rooms? Give its standards and explain its criteria for environmental monitoring | 06 |
| | (b) Give different types of glass with Q.C test | 05 |
| | (c) What is SOP? Describe its significance | 05 |
| Q.6 | (a) Enumerate different type of record maintain in Pharmaceutical company as per GMP. Write short note in batch manufacturing record. | 06 |
| | (b) Classify cosmetics. Write detail about dentifrices. | 05 |
| | (c) Enlist various types of Hair products; write formulation & evaluation of shampoo. | 05 |
| Q.7 | (a) What are pyrogens? Give its testing methods. | 06 |
| | (b) Write about formulation of ophthalmic dosage forms. | 05 |
| | (c) Explain filling and sealing methods of parenterals. | 05 |
