

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B. PHARM- SEMESTER-VII • EXAMINATION – WINTER-2022**

**Subject Code: 2270002****Date: 27/12/2022****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.

<b>Q.1</b>	(a) Write a note on Propellants used in Pharmaceutical aerosols.	<b>06</b>
	(b) Describe the filling techniques of aerosols.	<b>05</b>
	(c) Discuss the application of aerosols in Pharmacy.	<b>05</b>
<b>Q.2</b>	(a) Describe in detail the design of aseptic area.	<b>06</b>
	(b) Enumerate the additives used in the large volume parenteral. Discuss any one in detail.	<b>05</b>
	(c) Classify different types of glass. Describe water attack test for glass.	<b>05</b>
<b>Q.3</b>	(a) Describe the quality control test for ophthalmic suspension.	<b>06</b>
	(b) Classify different types of semi solid bases with suitable examples.	<b>05</b>
	(c) Discuss the evaluation tests for the suppositories.	<b>05</b>
<b>Q.4</b>	(a) Explain in brief: Microemulsion, Cyroprotectants, Tintures.	<b>06</b>
	(b) Explain the factors affecting drug absorption through the skin.	<b>05</b>
	(c) Write a short note on Preservatives.	<b>05</b>
<b>Q.5</b>	(a) Give the classification of emulsifying agents with suitable examples.	<b>06</b>
	(b) Write a note on Clear Gels for various topical uses.	<b>05</b>
	(c) Differentiate between vanishing cream and cold cream.	<b>05</b>
<b>Q.6</b>	(a) Enlist the excipients used in formulation of oral suspension. Explain the formulation of suspensions.	<b>06</b>
	(b) Describe the formulation and evaluation of lipstick	<b>05</b>
	(c) Write a short note on Shampoo.	<b>05</b>
<b>Q.7</b>	(a) Describe the importance of Documentation in GMP.	<b>06</b>
	(b) Discuss the premises facility requirements as per GMP.	<b>05</b>
	(c) Write a short note on SOP.	<b>05</b>

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