

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B. Pharm. – SEMESTER – VII • EXAMINATION – WINTER • 2016**

**Subject Code: 270002**

**Date: 19-11-2016**

**Subject Name: Pharmaceutical Technology- I**

**Time: 10:30 am - 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.

<b>Q.1</b>	(a) Write a note on pyrogens and its testing.	<b>06</b>
	(b) Give the different types of glass with their tests.	<b>05</b>
	(c) Describe pre-filling treatment of parenteral containers.	<b>05</b>
<b>Q.2</b>	(a) Write a note on Emulsifying agents & Suspending agents.	<b>06</b>
	(b) Write a short note on vehicles & solvents used in liquid dosage forms.	<b>05</b>
	(c) Outline manufacturing procedure of liquid orals.	<b>05</b>
<b>Q.3</b>	(a) Define Aerosols. Give a brief account of propellants.	<b>06</b>
	(b) How will you evaluate aerosols?	<b>05</b>
	(c) Write pharmaceutical applications of aerosols.	<b>05</b>
<b>Q.4</b>	(a) Differentiate creams, ointments and gels with their specific advantages. Write a short note on suppository bases.	<b>06</b>
	(b) Discuss the evaluation parameters for semisolid formulations.	<b>05</b>
	(c) Explain mechanisms of drug penetration through skin.	<b>05</b>
<b>Q.5</b>	(a) Discuss pharmaceutical testing of aerosols.	<b>06</b>
	(b) Enlist components of aerosol. Explain propellants in detail.	<b>05</b>
	(c) Describe quality control tests for parenterals.	<b>05</b>
<b>Q. 6</b>	(a) Discuss the factors affecting drug release from semisolids.	<b>06</b>
	(b) What is significance of HLB value? Classify emulsifying agents.	<b>05</b>
	(c) Differentiate S.V.P and L.V.P.	<b>05</b>
<b>Q.7</b>	(a) Comment: Ophthalmic product should be used within one month after opening the cap. Write in brief on formulation of ophthalmic dosage form.	<b>06</b>
	(b) Write a short note on W.F.I.	<b>05</b>
	(c) Enumerate evaluating parameters of emulsions.	<b>05</b>

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