

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Pharm. – SEMESTER – VII • EXAMINATION – SUMMER • 2014

Subject Code: 270002

Date: 05-06-2014

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.

Q.1	(a) Explain filling methods for parenteral products.	06
	(b) Explain mechanisms of drug penetration through skin.	05
	(c) Discuss pharmaceutical testing of aerosols.	05
Q.2	(a) Discuss the evaluation parameters for semisolid formulations.	06
	(b) Write pharmaceutical applications of aerosols.	05
	(c) Enlist components of aerosol. Explain propellants in detail.	05
Q.3	(a) Write a short note on suspending agents and emulsifying agents.	06
	(b) Define suspensions. Differentiate flocculated and deflocculated suspensions.	05
	(c) Define emulsions. Give types of emulsions. Write pharmaceutical applications of emulsions.	05
Q.4	(a) Describe quality control tests for parenterals.	06
	(b) Explain various types of actuator used in aerosol.	05
	(c) Briefly explain tincture and infusion.	05
Q.5	(a) Discuss the factors affecting drug release from semisolids.	06
	(b) Write a note on pyrogens and its testing.	05
	(c) Explain the necessitate for freeze-dried parenteral products and its processing.	05
Q. 6	(a) Explain formulation of sterile dosage forms.	06
	(b) Comment: Ophthalmic product should be used within one month after opening the cap. Write in brief on formulation of ophthalmic dosage form.	05
	(c) Write a short note on W.F.I.	05
Q. 7	(a) Give the different types of glass with their tests.	06
	(b) Write a short note on prefilled syringes.	05
	(c) Enlist official semisolid bases. Explain use of each with example.	05
