

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B.PHARM – SEMESTER – VII • EXAMINATION – WINTER – 2015

Subject Code: 2270002

Date: 07/12/2015

Subject Name: Pharmaceutical Technology – I

Time: 10.30 AM to 1.30 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)	Describe in brief with reference to sterile production : Aseptic techniques, sources of contamination and its prevention .	06
	(b)	Write a short note on preparation & evaluation of Water for Injection.	05
	(c)	Write a detail note on advances in parenteral packaging.	05
Q.2	(a)	Describe in short : Parenteral nutrients, Freeze dried parenteral products	06
	(b)	Describe types of ointment bases & How it can be sterilised?.	05
	(c)	Describe quality control tests of packaging materials used in parenterals.	05
Q.3	(a)	Write importance of following in liquid dosage form: stabilizer, preservatives & vehicle/solvent.	06
	(b)	Explain in brief Displacement value. Enumerate ideal characteristics of suppository bases.	05
	(c)	Discuss various techniques for solubility enhancement in liquid dosage forms.	05
Q.4	(a)	Explain in brief: extracts, tincture, infusion with examples.	06
	(b)	Discuss in brief the evaluation tests for medicated ointment.	05
	(c)	Write requirement of ideal biphasic liquids. Describe evaluation tests for suspension.	05
Q.5	(a)	Describe in detail quality control for pharmaceutical aerosols products.	06
	(b)	Classify propellants and describe liquefied gas propellants in brief. Discuss the role of propellants in an aerosol system.	05
	(c)	Draw well labeled diagram for pressurized packs. Explain different parts of it.	05
Q. 6	(a)	Describe schedule M requirement of GMP plant in pharmaceutical Industries.	06
	(b)	Define validation. Write a note on validation of steam sterilization.	05
	(c)	Enlist various types of Hair products, write preparation & evaluation of shampoo and conditioners.	05
Q.7	(a)	Write a short note on : SOPs, Dentifrice, Paste	06
	(b)	Explain in brief for following cosmetics: manicure preparations, hygienic products, Make up preparations.	05
	(c)	Write a short note on documentation importance in maintenance.	05
