Seat No.: _____ Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B.PHARM. - SEMESTER– VII • EXAMINATION – SUMMER-2016

Subject Code: 2270002 **Date: 05/05/2016**

Subject Name: Pharmaceutical Technology - I

Time: 2:30 PM to 5:30 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 various types of additives which are used in parenteral preparations.	**06**
	(b)	Explain preparation, storage and distribution of Water for injection.	**05**
	(c)	Discuss the evaluation parameter of parenteral dosage form.	**05**
Q.2	**(a)**	Write a short note on Prefilled syringes.	**06**
	(b)	Explain sources of contamination and methods of prevention in sterile product.	**05**
	(c)	Discuss in brief about ocular inserts for ophthalmic use.	**05**
Q.3	**(a)**	Define Aerosols. Describe in detail of propellants use in pharmaceutical Aerosols.	**06**
	(b)	How to testing of Pharmaceutical Aerosols?	**05**
	(c)	Enlist various container uses for Aerosol. Explain various types of actuator and valve used in aerosol.	**05**
Q.4	**(a)**	Discuss ideal properties of suppository base. Write a short note on suppository bases.	**06**
	(b)	Classify routes of drug penetration through skin. Discuss factors influencing penetration of drugs through skin.	**05**
	(c)	Explain quality control testing of suppository.	**05**
Q.5	**(a)**	Describe role of each component in formulation for clear liquid.	**06**
	(b)	Describe the evaluation parameter of suspension.	**05**
	(c)	Define Emulsion. Write a short note on 1) Microemulsion, 2) Extract.	**05**
Q. 6	**(a)**	Classify cosmetics. Write short note on toothpaste.	**06**
	(b)	Differentiate between Vanishing and cold cream.	**05**
	(c)	Write brief note of various baby care products.	**05**
Q.7	**(a)**	Enumerate different type of record maintain in Pharmaceutical company as per GMP. Write short note in batch manufacturing record.	**06**
	(b)	Define SOP. Explain Standard Operating Procedure with format.	**05**
	(c)	Describe the premises facility requirements as per GMP.	**05**

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