Seat No.:	Enrolment No.

## GUJARAT TECHNOLOGICAL UNIVERSITY B.PHARM.-SEMESTER-VII- EXAMINATION –SUMMER-2017

Subject Code: 270002 Date: 01/05/2017

Subject Name: Pharmaceutical Technology - I

Time: 02:30 PM to 05:30 PM Total Marks: 80

## **Instructions:**

- 1. Attempt any five questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

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Q.1	(a)	Describe large scale production of suspension and how they are evaluated.	06
	(b)	Differentiate elixirs and syrups. Name the sweeteners used in syrups for sugar restricted patients.	05
	(c)	Enlist commonly used preservatives in pharmaceutical preparation. Write the mode of action of preservatives.	05
Q.2	(a)	Explain the sources of contamination and the methods to prevent them.	06
	(b)	Comment: Prefilled syringes are more user convenience.	05
	(c)	Enumerate the quality control tests on sterile dosage forms.	05
Q.3	(a)	Define Pharmaceutical aerosols. Write the distinct advantages of aerosol dosage form.	06
	(b)	Describe the aerosol valve assembly with diagram.	05
	(c)	Write the pharmaceutical applications and evaluation of aerosols.	05
Q.4	(a)	Describe the mechanism of drug penetration process in detail.	06
	(b)	Justify Displacement value is having more significance in suppository calculation.	05
	(c)	Explain the various factors influencing the drug penetration.	05
Q.5	(a)	Write in detail about the parenteral additives with example and give the special precautions in handling of ophthalmic products.	06
	(b)	How the ampoules are sealed? Write the faults sealing and methods to detect them.	05
	(c)	Write a note on freeze dried products.	05
Q. 6	(a)	Define dialysis and explain the methods of dialysis. Write the composition of dialysis fluids.	06
	(b)	Differentiate microemulsions and multiple emulsions. Write the stability problems associated with emulsions.	05
	(c)	Write a note on isotonic solution.	05
Q.7	(a)	Classify the surfactants with example and write its pharmaceutical	0e
	(b)	applications.  Differentiate cintments, crosses and pastes with their specific	06
	(b)	Differentiate ointments, creams and pastes with their specific advantages.	05
	(c)	Explain the manufacturing methods of aerosols.	05
	(0)	Explain the manatactaring incurous of acrossis.	-

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