Seat No.: _____   Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Ph. - SEMESTER–VII • EXAMINATION – WINTER-2021

Subject Code: 2270002   **Date: 26/11/2021**
Subject Name: Pharmaceutical Technology -I
Time: 10:30AM TO 01:30PM   **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)**	Write a note on evaluation of aerosols.	**06**
	(b)	Differentiate precisely between liquid propellants and gaseous propellants	**05**
	(c)	Enlist the advantages and disadvantages of the pharmaceutical aerosols.	**05**
Q.2	**(a)**	Write a detail note on problems with their remedies in formulating pharmaceutical suspensions.	**06**
	(b)	Define emulsion. Differentiate between multiple emulsion and microemulsion.	**05**
	(c)	Discuss the evaluation of suppositories.	**05**
Q.3	**(a)**	Write a note on Lyophilization.	**06**
	(b)	Differentiate between large volume and small volume parenterals.	**05**
	(c)	How pyrogen gets incorporated in parenteral products. Write a note on pyrogen testing.	**05**
Q.4	**(a)**	How is aseptic area maintained and monitored.	**06**
	(b)	Write a note on water for injection: its preparation and quality control.	**05**
	(c)	Write a note on evaluation of ophthalmic products.	**05**
Q.5	**(a)**	Enlist the different techniques for solubilization. Discuss any one in detail.	**06**
	(b)	Write a note on sweetners used in different oral liquids dosage forms.	**05**
	(c)	Discuss different types of ointment bases with suitable examples.	**05**
Q. 6	**(a)**	Explain in detail the validation of steam sterilizer.	**06**
	(b)	Write a note on "Documentation and its significance".	**05**
	(c)	Write in detail on containers and closures used for parenterals.	**05**
Q.7	**(a)**	Write a note on baby care products.	**06**
	(b)	Discuss in detail about topically applied creams.	**05**
	(c)	Write a note on lip care products.	**05**

****