

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VII (NEW) EXAMINATION – WINTER 2023****Subject Code:3173618****Date:08-12-2023****Subject Name: Technology of Sterile Dosage Forms and Pharmaceutical Packaging Technology****Time: 10:30 AM TO 01:00 PM****Total Marks:70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Simple and non-programmable scientific calculators are allowed.

		MARKS
Q.1	(a) What is nasal dosage form?	03
	(b) Define Pharmaceutical Packaging and give the role of metals in packaging.	04
	(c) Discuss different pharmaceutical packaging in details.	07
Q.2	(a) Write a note on intranasal drugs.	03
	(b) What are (1) The strip Packaging, (2) Blister packaging?	04
	(c) Describe Glass as packing material. Give its uses, advantages and disadvantages	07
	OR	
	(c) What are the quality control tests for glass containers used in pharmaceutical packaging?	07
Q.3	(a) Define parenteral. Give its classification.	03
	(b) Write the advantages & disadvantages of parenteral dosage forms.	04
	(c) Describe solid dosage forms with its significance.	07
	OR	
Q.3	(a) Give the importance of pharmaceutical packaging.	03
	(b) Describe production facility of parenteral with a neat labeled diagram.	04
	(c) What are the different components of parenteral?	07
Q.4	(a) Write the classifications, uses, advantages and disadvantages of glass as packing material.	03
	(b) Write a short note on: drug-container interactions.	04
	(c) Describe the packaging of sterile dosage forms.	07
	OR	
Q.4	(a) Write note on: (1) Classifications of packing, (2) Child resistant packaging.	03
	(b) What is tamper resistant Pharmaceutical packaging?	04
	(c) What are ICH guidelines in pharmaceutical industry?	07
Q.5	(a) Write a note on sutures and ligatures.	03
	(b) What are primary & secondary packaging?	04
	(c) Write a note on closures and types of closures used in packaging system.	07
	OR	
Q.5	(a) Write a brief review on quality control of sterile dosage forms.	03
	(b) Define and classify sterilization	04
	(c) Write note on: i) newer techniques of packaging ii) Materials used for packaging	07
