

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII (NEW) EXAMINATION – SUMMER 2024

Subject Code:3173618

Date:22-05-2024

Subject Name:Technology of Sterile Dosage Forms and Pharmaceutical Packaging Technology

Time:02:30 PM TO 05:00 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) Classify parenteral routes of administration.	03
	(b) Write a note on ideal properties of packaging materials?	04
	(c) Define stability and explain in detail stability of solid oral dosage forms.	07
Q.2	(a) Write a note on contact lenses & care solutions.	03
	(b) Write a note on solid ophthalmic dosage forms.	04
	(c) Define Tamper resistant packaging. Describe any six of them.	07
	OR	
	(c) Write a note on Closures and types of closures used in packaging system.	07
Q.3	(a) Describe briefly the various ophthalmic formulations.	03
	(b) Write note on Blister and Strip packaging evaluation test.	04
	(c) Introduction to sterile pharmaceuticals and its packaging components?	07
	OR	
Q.3	(a) Enlist various steps involved in pre-formulation.	03
	(b) Explain importance of pharmaceutical packaging.	04
	(c) Write a note on unit operations involved in the parenteral manufacturing.	07
Q.4	(a) Distinguish between blister and strip packaging?	03
	(b) Define pre-formulation with example.	04
	(c) Explain lay out with design for ophthalmic dosage forms.	07
	OR	
Q.4	(a) What are the new trends in the Pharmaceutical packaging?	03
	(b) Write in detail about the formulation development of parenteral dosage forms.	04
	(c) Write a note on stability zones as per the ICH guidelines and enlist the stability tests for the parenteral dosage forms.	07
Q.5	(a) Write a brief review on quality control of sterile dosage forms.	03
	(b) Write a note on the Adhesive materials used in packaging technology.	04
	(c) Write a note on liquid ophthalmic products with their advantages and disadvantages.	07

OR

- Q.5**
- | | | |
|------------|---|-----------|
| (a) | Enlist classification of ophthalmic products. | 03 |
| (b) | Write a note on ancillary packaging and materials required for ancillary packaging? | 04 |
| (c) | Describe the classifications of packing. Explain the uses, advantages and disadvantages of using (i). Plastic as packing material, (ii). Metal as packing material. | 07 |
