

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Pharm - SEMESTER-VII • EXAMINATION – SUMMER -2021

Subject Code: 2270002**Date:04/08/2021****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) Define and classify the sterile dosage form and what are the advantage and limitation of sterile products	06
	(b) Enlist the ideal characteristics of suspension. Comment on "Flocculated suspension is an ideal suspension."	05
	(c) Write a note on meter dose inhaler	05
Q.2	(a) Discuss sham and LAL test for sterile products	06
	(b) Describe role of each component used in formulation of clear liquid	05
	(c) Define the Microemulsion? Mentioned significance and method for evaluation of microemulsion.	05
Q.3	(a) Discuss in detail any one method and quality control tests for Water for injection.	06
	(b) Write a note on semi solid bases. Enumerate their selection and ideal requirements of bases.	05
	(c) Classify routes of drug penetration through skin. Describe various factors affecting on drug penetration through skin.	05
Q.4	(a) Discuss parental suspension? Explain methods for preparation of parental suspension.	06
	(b) Explain the following evaluation tests for aerosols: 1. Flammability and combustibility. 2. Spray pattern and spray testing.	05
	(c) Enlist the properties of ideal propellant used in aerosol. Describe in brief propellants used for topical aerosols.	05
Q.5	(a) Write note on cosmeceuticals.	06
	(b) Briefly explain the distribution record.	05
	(c) What is SOP? Narrate guideline for preparing SOP	05
Q.6	(a) Mention the significance of the various ingredients used in the formulation of cold cream and vanishing cream and cite suitable example of each.	06
	(b) Define validation and Briefly discuss validation of stem sterilizers.	05
	(c) Write a note on Blow fill seal technology for parenteral products.	05
Q.7	(a) What are clean rooms? Discuss the standards for clean rooms	06
	(b) Enumerate ideal characteristics of suppository bases Describe any one method of manufacturing suppositories in detail.	05
	(c) Explain the structure and function of hair and Explain formulation of hair conditioners in brief.	05
