GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM SEMESTER-VI- EXAMINATION – WINTER 2022

Subject code: BP605TP   **Date: 02/01/2023**
Subject Name: Industrial Pharmacy-I
Time: 02:30pm to 05:30pm   **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)**	What is Tablet? Classify it and explain wet granulation method.	**06**
	(b)	Define preformulation. Discuss the significance of particle size and shape in formulation.	**05**
	(c)	Explain the quality control test for capsule.	**05**
Q.2	**(a)**	Discuss the defects observed in tablet and its remedies.	**06**
	(b)	Explain the stability aspect of soft gelatin capsule and give its application.	**05**
	(c)	What is Pelletization? Enumerate the various pelletization techniques and explain any one.	**05**
Q.3	**(a)**	Describe In process quality control tests for sterile products.	**06**
	(b)	Define Aerosols. Give a brief account of propellant and its selection.	**05**
	(c)	Discuss the role of polymorphism and crystallinity in preformulation.	**05**
Q.4	**(a)**	Write a note on the formulation, containers and labeling of eye drops.	**06**
	(b)	Explain the evaluation parameters of liquid oral officials in pharmacopoeia.	**05**
	(c)	Enumerate the size of capsules. Explain the formulation process of hard gelatin capsules.	**05**
Q.5	**(a)**	Give brief note on formulation, preparation and evaluation of shampoo.	**06**
	(b)	Describe the coating defects in tablet.	**05**
	(c)	Define BCS? Classify it and write its significance.	**05**
Q. 6	**(a)**	Explain the instability of emulsion.	**06**
	(b)	Give a brief note on lyophilization process.	**05**
	(c)	Write a brief note on stability aspects of packing.	**05**
Q. 7	**(a)**	Give difference between 1. Hard gelatin capsules and Soft gelatin capsules. 2. Blister packaging and Strip packaging.	**06**
	(b)	Give difference between 1. Suspension and Emulsion. 2. Cold cream and Vanishing cream.	**05**
	(c)	Write a note on preformulation consideration of solid dosage forms.	**05**

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