Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY B.PHARM - SEMESTER-6 EXAMINATION – WINTER -2023

Subject Code: BP605TP Subject Name: Industrial Pharmacy I Time:02.30 p.m. to 5.30 p.m. Instructions:

Date: 14/12/2023

Total	Marks:	80
		00

- 1. Attempt any five questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a)	What is preformulation studies? Discuss the importance of polymorphism study at preformulation stage.	06
	(b) (c)	Write a brief note on solid state stability studies in brief. Discuss significance of BCS and explain its class boundaries.	05 05
Q.2	(a) (b) (c)	Describe the compression processing defects in tablet and give its remedies. Explain components and cycle of rotary tablet compression machine. Describe dissolution test and its acceptance criteria for conventional release tablets as per IP.	06 05 05
Q.3	(a)	Describe the Uniformity of weight and Uniformity of content for capsules as per the Indian Pharmacopoeia.	06
	(b) (c)	Write a note on excipients used in the formulation of hard gelatin capsules. Enlist the various pelletization techniques and explain any one in brief.	05 05
Q.4	(a) (b)	Explain the process of Form-Fill-Seal technology in parenteral production. Write a note on production facilities and environmental control in the manufacturing of sterile product.	06 05
	(c)	Describe pyrogen test for infusions as per IP.	05
Q.5	(a) (b)	Write a short note on sunscreens. Enlist the filling methods for aerosols and describe pressure filling method in brief.	06 05
	(c)	Explain quality control tests for pharmaceutical aerosols.	05
Q. 6	(a) (b)	Discuss the factors influencing choice of containers for pharmaceuticals. Describe the hydrolytic resistance test for classification of glass containers as per IP.	06 05
	(c)	Write a short note on suspending agent.	05
Q.7	(a) (b) (c)	Discuss advantages and formulation of film coating for tablets. Write a note on the containers, test and labeling of eye ointments. Discuss formulation considerations for ophthalmic products.	06 05 05
