Seat No.:	Enrolment No.

Subject Code:BP605TP

Subject Name: Industrial Pharmacy-I

GUJARAT TECHNOLOGICAL UNIVERSITY

B.Pharm - SEMESTER-VI EXAMINATION - WINTER -20

Date: 13/01/2021

		00 PM TO 4:00 PM Total Marks: 54	
1. 2. 3.	Q.7 i Mak	mpt any THREE questions from Q-1 to Q-6. is compulsory to attempt. is e suitable assumptions wherever necessary. ires to the right indicate full marks.	
Q.1	(a)	Define preformulation. Write a note on physicochemical properties related to solubility study in preformulation	06
	(b)	Write a note on Polymorphism giving examples.	05
	(c)	Discuss in brief the evaluation test for suspensions.	05
Q.2	(a)	Explain the criteria for the quality of air in an aseptic area. How is the quality of air controlled in an aseptic area?	06
	(b)	What are pyrogens? Explain the sources of pyrogens in parenterals. Explain the principle of LAL test for pyrogen testing.	05
	(c)	Explain preparation and storage of W.F.I.	05
Q.3	(a) (b)	Describe the in situ gelling system in ophthalmic drug delivery system. Define emulsions. Give types of emulsions. Write pharmaceutical applications of emulsions.	06 05
	(c)	Discuss in brief the additives used in liquid dosage forms	05
Q.4	(a)	Discuss the compression related problem in tablet and give suitable suggestion	06
	(b)	to overcome it. What is roller compactor? Draw label diagram, discuss its working and process variable affecting on its performance	05
	(c)	Give the reasons for enteric coating of tablet. Enlist enteric and non enteric film former materials. Write note on plasticizer.	05
Q.5	(a)	Describe the Rotary die process for manufacturing of soft gelatin capsule.	06
	(b) (c)	Explain size of capsules and write a note on problem and remedies in capsules. Discuss the powder glass test and water attack test for packaging in Pharmaceuticals.	05 05
	(2)		06
Q. 6	(a) (b)	What is Pelletization? Discuss factors affecting pellet properties. Write a note on Melt Extrusion technology	06 05
	(c)	Define: Pharmaceutical aerosols. Explain the role of propellants in an aerosol system. Classify propellants and describe liquefied gas propellants in brief.	05
Q.7	(a)	Classify filling methods for aerosols. Describe the manufacturing of aerosols by cold filling and pressure filling method.	06
	(a)	OR Differentiate between vanishing and cold cream with formulation significant OR	06
	(a)	What is SPF in sunscreen .How to calculate it	06
