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## **GUJARAT TECHNOLOGICAL UNIVERSITY B.Pharm - SEMESTER-VI EXAMINATION - WINTER -20**

Subject Code:BP605TPDate: 13/01			
Subject Name: Industrial Pharmacy-ITime: 2:00 PM TO 4:00 PMTotal Marks:Instructions:1. Attempt any THREE questions from Q-1 to Q-6.2. Q.7 is compulsory to attempt.3. Make suitable assumptions wherever necessary.			
4. Figures to the right indicate full marks.			
Q.1	<b>(a)</b>	Define preformulation. Write a note on physicochemical properties related to	06
	<b>(b</b> )	solubility study in preformulation	05
	(b) (c)	Write a note on Polymorphism giving examples. Discuss in brief the evaluation test for suspensions.	05 05
Q.2	(c) (a)	Explain the criteria for the quality of air in an aseptic area. How is the quality	05
×	(4)	of air controlled in an aseptic area?	00
	<b>(b)</b>	What are pyrogens? Explain the sources of pyrogens in parenterals. Explain the	05
	(c)	principle of LAL test for pyrogen testing. Explain preparation and storage of W.F.I.	05
03		Describe the in situ gelling system in ophthalmic drug delivery system.	06
Q.3	(a) (b)	Define emulsions. Give types of emulsions. Write pharmaceutical applications	00
		of emulsions.	
	(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
		to overcome it.	
	<b>(b</b> )	What is roller compactor? Draw label diagram, discuss its working and process	05
	(c)	variable affecting on its performance Give the reasons for enteric coating of tablet. Enlist enteric and non enteric film	05
	(0)	former materials. Write note on plasticizer.	02
Q.5	(a)	Describe the Rotary die process for manufacturing of soft gelatin capsule.	06
Q.3	(a) (b)	Explain size of capsules and write a note on problem and remedies in capsules.	00
	(c)	Discuss the powder glass test and water attack test for packaging in	05
		Pharmaceuticals.	
Q. 6	(a)	What is Pelletization? Discuss factors affecting pellet properties.	06
-	<b>(b)</b>	Write a note on Melt Extrusion technology	05
	(c)	Define: Pharmaceutical aerosols. Explain the role of propellants in an aerosol	05
		system. Classify propellants and describe liquefied gas propellants in brief.	
Q.7	<b>(a)</b>	Classify filling methods for aerosols. Describe the manufacturing of aerosols by	06
		cold filling and pressure filling method. OR	
	(a)	Differentiate between vanishing and cold cream with formulation significant	06
	(a)	OR What is SPE in superroop. How to colculate it	07
	(a)	What is SPF in sunscreen .How to calculate it	<u> </u>