Seat N	lo.:	Enrolment No.	
Sout 1		GUJARAT TECHNOLOGICAL UNIVERSITY	
B.PI	HARN	M – SEMESTER – VII • EXAMINATION – WINTER – 20	015
		ode: 270002 Date: 07/1	
•		me: Pharmaceutical Technology –I	,_ 0_0
-	Time: 10.30 AM to 1.30 PM Total Marks:		
Instr	uction	us:	
1.		npt any five questions.	
2.		suitable assumptions wherever necessary.	
3.	Figur	es to the right indicate full marks.	
Q.1	(a)	Classify liquid dosage forms. Describe in brief the formulation components of clear liquids with the role of each component in the formulation.	06
	(b)	Explain the stages in manufacturing of clear liquid dosage forms with a suitable flow diagram.	05
	(c)	What is a stabilizer? Name three stabilizers for liquid oral dosage forms.	05
Q.2	(a)	Define emulsions. Differentiate emulsions, multiple emulsions and micro emulsions with their limitations.	06
	(b)	Define semi solids. Write advantages, disadvantages and types of semisolids.	05
	(c)	Differentiate pastes, gels and jellies with their specific advantages.	05
Q.3	(a)	Write general formulation of semisolids with specific use of each ingredient. Enumerate evaluation parameters of semisolids.	06
	(b)	Enumerate ideal characteristics of suppository base. Describe any one method of manufacturing suppositories in detail.	05
	(c)	Enumerate factors influencing penetration of drugs through skin.	05
Q.4	(a) (b)	Define: Pharmaceutical Aerosols. Give a brief account of propellant. Classify filling methods for Aerosols. Describe the manufacturing of Aerosols by cold filling method.	06 05
	(c)	Write the function of following components in Aerosol. 1). Housing 2). Gasket 3). Actuator 4). Mounting cap	05
Q.5	(a)	Define SVP and LVP. Describe types of IV sets.	06
	(b)	Discuss in brief on "Lyophilized products".	05
	(c)	Write short note on FFS technology.	05
Q. 6	(a)	What are pyrogens? Explain the sources of pyrogens in parentrals. Explain the principle of LAL test for pyrogen testing.	06
	(b)	Explain preparation and storage of WFI.	05
	(c)	Write short note on "Pre filled syringes".	05
Q.7	(a)	Describe in brief about the following components used for the formulation of parenteral 1) Process strategy 2) Vehicles 3) Pullsing Agents	06
	(b)	1) Preservatives 2) Vehicles 3) Bulking Agents Write a brief on Parenteral Suspension.	05
	(c)	Write the evaluation parameters of Pharmaceutical Aerosols.	05 05
