GUJARAT TECHNOLOGICAL UNIVERSITY B. Pharm. – SEMESTER – VII • EXAMINATION – WINTER 2013

Subject Code: 270002Date: 28-11-20Subject Name: Pharmaceutical Technology- I				
-	: 1().30 a	m - 01.30 pm Total Marks: 80	
	 Attempt any five questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. 			
Q.1		(a)	Explain the various types of additives which are used in liquid dosage formulations with examples	06
		(b) (c)	Describe the evaluation of Suspensions & Emulsions. Define & enumerate the advantages of micro-emulsions & multiple- emulsions.	05 05
Q.2		(a) (b)	Define Tincture, Extracts and Infusion with pharmaceutical examples. What are the advantages of cold filling & pressure filling techniques in manufacturing aerosols.	06 05
		(c)	Write a short note on suppository & Gels.	05
Q.3		(a)	Write a note on semi solid bases. Enumerate their selection & ideal requirements of bases.	06
		(b) (c)	Explain the mechanism of drug penetration through skin. Mention the advantages & disadvantages of semi-solid dosage forms	05 05
Q.4		(a) (b) (c)	Define Aerosols. Explain briefly about propellants & classify. Write in details about the containers used in aerosols. Enumerate evaluating parameters of aerosols.	06 05 05
Q.5		(a)	Write in detail about design and requirements for production area of sterile dosage formulations.	06
		(b)	What are the sources of contamination & methods of prevention in sterile dosage formulations.	05
		(c)	Describe the design of aseptic area & importance of laminar flow bench.	05
Q. 6		(a)	Describe "Water for Injection" & its preparation and quality control measures.	06
		(b)	What are the ideal requirements & formulations of sterile dosage formulations.	05
		(c)	Write a note on formulation of ophthalmic dosage form.	05
Q.7		(a)	Discuss the evaluation techniques for sterile dosage formulations.	06
		(b)	Explain the different types of containers & closures used in sterile dosage formulations.	05
		(c)	Describe the various methods of filling & sealing techniques used in parenterals.	05
