	Ν	GUJARAT TECHNOLOGICAL UNIV 1. Pharm. – SEMESTER – II • EXAMINATION – SU		
Subject Code: 2920102			Date: 23-05-2013	
Su' Tir	bject	Name: Novel Drug Delivery System Part-1 2.30 pm - 05.30 pm	Total Marks: 80	
		Attempt any five questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a)	Discuss the principle of osmotic drug delivery systems drug delivery systems and write a detailed note on con osmotic pumps	-	06
	(b)	Write a note on basic components of osmotic drug del examples for each component	ivery system giving	05
	(c)	Describe Higuchi-Leeper pump		05
Q.2	(a)	Discuss the rationale for developing colon targeted drug delivery system. Describe in detail about microbially trigerred systems		06
	(b)	Describe the factors affecting drug absorption from co delivery systems	0 0	05
	(c)	Write a brief note on evaluation of colon targeted drug	g delivery systems	05
Q.3	(a)	Enlist the methods of preparation of liposomes. Write in detail about mechanical dispersion method		06
	(b) (c)	Discuss the evaluation parameters for liposomes Write a short note on application of liposomes in drug	targeting	05 05
Q.4	(a) (b) (c)) Write a short note on advances in particle coating technology		06 05 05
Q.5	(a)	Classify glass containers. Describe the tests for evaluation of suitability of glass as a container		06
	(b) (c)	Write a note on paper and board based packaging material Write a note on stability aspects of packaging material		05 05
Q. 6	(a)	Describe the approaches used in developing novel ocu systems	lar drug delivery	06
	(b) (c)	Write a note on soluble ophthalmic drug insert Discuss the limitations of conventional ocular dosage	forms	05 05
Q.7	(a) (b) (c)	Discuss about hydrogels as a novel approach to contro How are microemulsions evaluated? Discuss the advantages and limitations of buccal and s delivery		06 05 05
