Seat No.:	Enrolment No.
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GUJARAT TECHNOLOGICAL UNIVERSITY

M. Pharm. - SEMESTER - III • EXAMINATION - WINTER • 2014

•		Code: 930108 Date: 06-12-2014 Name: Industrial Pharmacy - V	
Time	: 10	0:30 am - 01:30 pm Total Marks: 80	
Instru	1. 2.	Attempt any five questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a) (b) (c)	in pharmaceuticals giving suitable examples.	06 05 05
Q.2	(a) (b) (c)	Enlist and discuss any two extruder used in pharmaceuticals giving schematic diagram. Enlist and discuss factors affecting spheronization. Define FFS. Enlist its advantages and disadvantages.	06 05 05
Q.3	(a) (b) (c)	_	06 05 05
Q.4	(a) (b) (c)		06 05 05
Q.5	(a) (b) (c)	_	06 05 05
Q. 6	(a)(b)(c)	Enlist various techniques used for preparation of nanoparticles and discuss any two in details. Define and classify liposome. Enlist various applications of liposome in pharmaceuticals. Enlist and discuss evaluation of niosomes.	06 05 05
Q.7	(a)(b)(c)	Explain in details "Why there is need of NDDS?" Discuss problems associated to formulate NDDS by pharmaceutical industry. Enlist advantages, disadvantages and significance of Osmotic drug delivery system. Describe the objectives of maintenance and cleaning in Pharmaceutical industry.	06 05 05
