

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Pharm. – SEMESTER – VIII • EXAMINATION – WINTER • 2016

Subject Code: 2280002

Date: 22-11-2016

Subject Name: Pharmaceutical Technology - II

Time: 02:30 pm - 05:00 pm

Total Marks: 80

Instructions:

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

Q.1	(a)	What are objectives of enteric coating? Describe polymers used for enteric coating.	06
	(b)	Discuss in brief following tests for tablet: 1) Disintegration test 2) Dissolution test	05
	(c)	Enumerate defects observed in tablet compression process.	05
Q.2	(a)	Write in details about colon drug delivery tablets and its evaluation	06
	(b)	Write advantages and disadvantages of tablets.	05
	(c)	Describe biodegradable and non-biodegradable polymers used in microcapsules	05
Q.3	(a)	Explain term microcapsule. Discuss in detail phase coacervation phenomena for preparation of microcapsules	06
	(b)	Write application of extrusion in Pharmacy.	05
	(c)	Write brief note on importance of microsphere in Pharmacy	05
Q.4	(a)	Write on any two: 1) binders 2) disintegrants 3) lubricants	06
	(b)	Define capsules and write quality control tests on hard gelatin capsules	05
	(c)	Discuss role of polyethylene oxide and eudragit in melt extrusion	05
Q.5	(a)	Write factors affecting on pellet properties.	06
	(b)	Write a brief note on the size of capsules.	05
	(c)	Explain extrusion and Pelletization and describe equipment used for it.	05
Q. 6	(a)	Define super critical fluid and discuss its pharmaceutical application.	06
	(b)	Write short note on techniques of SCF and one equipment for SCF processing.	05
	(c)	Differentiate Primary and secondary packaging with suitable examples.	05
Q.7	(a)	Discuss regulatory requirements in pharmaceutical packaging	06
	(b)	Explain tamper proof packaging	05
	(c)	Write a brief note on stability aspects of packing.	05
