

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Pharm - SEMESTER- VIII • EXAMINATION – SUMMER-2017

Subject Code: 2280002

Date: 29/04/2017

Subject Name: PHARMACEUTICAL TECHNOLOGY- II

Time: 10:30 AM to 1:30 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)	Define Compressed tablet. Give advantages and disadvantages of tablet.	06
	(b)	Discuss different in process quality control tests for tablet.	05
	(c)	Write an explanatory note on mouth dissolving tablets.	05
Q.2	(a)	Differentiate Microcapsules and microspheres. Write a note on applications of biodegradable polymers for microspheres.	06
	(b)	Discuss formulation of soft gelatin capsule shell.	05
	(c)	Discuss different formulation problems and remedies there of for filling hard gelatin capsules.	05
Q.3	(a)	What is Pelletization? Discuss factors affecting pellet properties.	06
	(b)	Write a note on Melt Extrusion technology.	05
	(c)	Discuss Applications of Extrusion in the pharmaceutical field.	05
Q.4	(a)	Define packaging. Discuss different types of packaging.	06
	(b)	Write a note on different types of packaging material.	05
	(c)	Discuss different methods for evaluation of packaging.	05
Q.5	(a)	Discuss different granulation techniques for tablets.	06
	(b)	Give objectives of tablet coating.	05
	(c)	Write a note on coacervation- Phase separation technique for microencapsulation.	05
Q. 6	(a)	What is supercritical fluid? Give pharmaceutical applications of supercritical fluids in extraction.	06
	(b)	Discuss equipment for super critical fluid processing.	05
	(c)	Write a note on preparation of solid dispersions by supercritical fluid processing.	05
Q.7	(a)	Write a note on influence of packaging components on dosage form stability.	06
	(b)	Discuss different film coating defects.	05
	(c)	Write a note on Matrix tablet.	05
