

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM - SEMESTER- 8 EXAMINATION – SUMMER -2019

Subject Code: 2280002**Date: 08-05-2019****Subject Name: Pharmaceutical Technology II****Time: 10:30 AM TO 01:30 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) Describe film coating defects in tablets with remedies.	06
	(b) Explain in brief compression and compaction of tablets.	05
	(c) Write a note on Tablet compression Tooling.	05
Q.2	(a) Discuss in-process quality control tests of tablets.	06
	(b) Explain in brief capping and lamination defects of tablets.	05
	(c) Write objectives of coating. Discuss various film forming materials.	05
Q.3	(a) Write specific evaluation tests of mouth dissolving tablets & floating tablets.	06
	(b) Write applications of biodegradable and non biodegradable polymers used in Microcapsules/Microspheres.	05
	(c) Enumerate the techniques of microencapsulation. Describe working of “Wurster Air Suspension Apparatus”.	05
Q.4	(a) Explain the defects observed in manufacturing of hard gelatin capsules.	06
	(b) Write manufacturing process of Hard Gelatin Capsule Shells.	05
	(c) Describe rotary die process of manufacturing soft gelatin capsule with schematic diagram.	05
Q.5	(a) Discuss factors affecting pellet properties. Write Melt extrusion method of pellet preparation.	06
	(b) Explain : Tamper-evident packaging, Child resistant containers.	05
	(c) Discuss importance of climatic control in capsule department.	05
Q. 6	(a) Explain phase diagram with labeled sketch shows supercritical region with examples.	06
	(b) Write pharmaceutical applications of supercritical fluid.	05
	(c) Discuss regulatory requirements in packaging.	05
Q.7	(a) Describe the methods for the filling of Hard Gelatin capsules.	06
	(b) Write a short note on evaluation tests of pharmaceutical packaging materials.	05
	(c) Describe preparation method of powder from liquid by using supercritical fluids.	05
