Seat No.: _____ Enrolment No. _____

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

Subject Code:2280002 **Date:30/04/2016**
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 Tablet. Give Classification of Tablets. Write a note on sizes of Tablets.	**06**
	(b)	Write a note on excipients of compressed tablets.	**05**
	(c)	What are processing problems and remedies for coated tablets?	**05**
Q.2	**(a)**	What are IPQC and final evaluation parameters for mouth dissolving and colon targeted tablets?	**06**
	(b)	Write a note on use and care of Tablet tooling.	**05**
	(c)	What are types of tablet coating? Write a note on equipment for coating of tablets.	**05**
Q.3	**(a)**	What is hard capsule? Give comparative advantage and disadvantage of capsules over tablets. Write a note on IP Capsules.	**06**
	(b)	What is a difference between micro capsules and micro spheres? Write a note on application on biodegradable and non-biodegradable polymers used in that.	**05**
	(c)	Write a note on Air suspension technique.	**05**
Q.4	**(a)**	Compare hard gelatin capsules with soft gelatin capsules.	**06**
	(b)	Write a note on IPQC for capsules with special emphasis on dissolation testing.	**05**
	(c)	What is cross linking problem in gelatin capsule cells?	**05**
Q.5	**(a)**	Write a note on excipients used in pellets.	**06**
	(b)	What is extrusion and pelletization and describe equipment used in this.	**05**
	(c)	Write a note on ready to use pellets available in market.	**05**
Q. 6	**(a)**	What is solid dispersion? Write limitations of solid dispersion technique. Compare it with inclusion complex.	**06**
	(b)	Define super critical fluid. Write about its pharmaceutical application.	**05**
	(c)	Write note on techniques of SCF and one equipment for SCF processing.	**05**
Q.7	**(a)**	What do you understand by primary, secondary and tertiary packaging in pharma with their identification system on it.	**06**
	(b)	What is temper evident containers and closures?	**05**
	(c)	Write a note on regulatory requirements in pharma packaging.	**05**

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