Seat No.:	Enrolment No.
Deal INU	EHIOHHEIR NO.

GUJARAT TECHNOLOGICAL UNIVERSITY B. PHARM. - SEMESTER - VIII EXAMINATION - OCTOBER 2012

Subjection Subjection	ect Nan e: 02.30 ruction 1. Att 2. Ma	e: 280002 ne: Pharmaceutical Technology-II pm - 05.30pm S: empt any five questions. ke suitable assumptions wherever necessary. ures to the right indicate full marks.	
Q.1	(a)	What is roller compactor? Draw label diagram, discuss its working and process variable affecting on its performance.	06
	(b)	 Answer the following question Explain "Orange peel effects" on coating What are "Sugartab", "Dipac", and "Nu tab"? give its composition Give the disintegration test for enteric coated tablets as per USP. What are "Anti frictional agents use in tablet"? give its functionalities with example Define dental cone 	05
	(c)	Discuss the variables to be controlled in pan-spray film coating process	05
Q.2	(a)	Differentiate between direct compression and wet granulation methods for tablet	06
	(b)	 Comment on following statement Mannitol is used as diluent in chewable tablet. Anhyrous lactose has the advantage over the lactose. Quantity of binders should be carefully added in tablet preparation. Effervescence tablet should be packed in hermetically seal container. Lactose is widely used diluent in tablet 	05
	(c)	Discuss the compression related problem in tablet and give suitable suggestion to overcome it.	05

Q.3	(a)	Explain term microcapsule. Discuss in detail phase coacervation phenomena for preparation of microcapsules	06
	(b)	Enumerate various evaluation parameters for microencapsulation. Discuss application of biodegradable polymer in microcapsules	05
	(c)	Write note on wurster process for microcapsule	05
Q.4	(a)	 Answer the following questions Explain the term microsphere and give its importance What is bloom strength of gelatin? Explain it Define & explain "base adsorption" of the solid in soft gelatin capsule. 	06
	(b)	Discuss the evaluation parameters for mouth dissolving tablet	05
	(c)	Give the reasons for enteric coating of tablet. Enlist enteric and non enteric film former materials. Write note on plasticizer.	05
Q.5	(a)	Discuss following with respect to GMP 1. Personal 2. Material 3. Equipment	06
	(b)	Give important of documentation in pharmaceutical manufacturing. Write detail account of batch manufacturing records.	05
	(c)	Give the advantages of pharmaceutical validation? How will you perform validation of steam sterilizer?	05
Q. 6	(a)	Define pharmaceutical package. Enlist the criteria for selection of package type and packaging material. Classify the packaging materials.	06
	(b)	What are the importances of sun protective factor (SPF) in sunscreen preparation? Discuss the formulation and evaluation of sunscreen.	05
	(c)	Give the evaluation test for closure as per IP. Write note on temper evident packaging.	05
Q.7	(a)	Discuss regulatory requirements in pharmaceutical packaging.	06
	(b)	Distinguish between vanishing cream and cold cream with examples.	05
	(c)	Give the formulation and evaluation of dentifrice	05
