Seat No.:	Enrolment No.

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

M. Pharmacy Sem-II Examination July 2010

Subject code: 920202

**Subject Name: Global Regulatory Requirements** 

Date: 07/07/2010 Time: 11.00 am - 02.00 pm

Instructions: Total Marks: 80

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

Q.1	(a)	Define Pharmaceutical Packaging. What are the conditions pertaining to containers as per USP? Discuss the objectives, importance and functions of	06
	(b)	packaging. What are the innovations in tamperproof packaging and coding systems?	05
	(b)	What are package integrity tests for Parenterals?	US
	(c)	Comment on suitability of APIs with packaging material.	05
(•	(•)	Write a note on packages for pediatrics and geriatrics.	
(1)	(a)	What is cleaning validation? What are current regulatory requirements for	06
		it? What ICH talks about Analytical methods development and validation?	
	(b)	Why the computer system needs to be validated? How entrepreneur	05
	( )	resource planning make use of computers?	٥.
	(c)	Write a note on qualifications of Pharma. Process equipment and write a note on validation of an autoclave.	05
Q.3	(a)	What is the need for Orange book? Suggest equivalence related terms and	06
Q.5	(a)	statistical criteria for bio-equivalence. How to use cumulative supplement?	00
	(b)	Discuss the historical aspects of drug development and approval. Which	05
	( )	information can be obtained as per FOIA?	
	(c)	Write a note on IIG.	05
Q.4	(a)	Differentiate IND, NDA and ANDA. Which are the four pillers for timely	06
	(1.)	approval of NDAs/ ANDAs?	
	(b)	Write a note on ANDA. Discuss Drug Price Competition and Patent	05
		restoration act of 1984 and WAXMAN-HATCH ACT are the same and its economics on the society is important.	
	(c)	Write a note on supplemental new drug application.	05
Q.5	(a)	What USFDA does and does not regulate? How will you prepare for	06
Q.C	(4)	USFDA inspection?	
	(b)	How is SMF prepared for MCC guideline?	05
	(c)	Which medicines are not accepted as generics- as per ANVISA?	05
Q. 6	(a)	Define CTD and e-CTD. What are technical requirements for e-CTD?	06
	(b)	Write a note on EMEA implementation of New EU Pharma. legislation.	05
	(c)	Write a note on export certificates as per MHRA. Discuss legal status and reclassification of medicinal products.	05
Q.7	(a)	Discuss the TGA's risk management approach.	06
	(b)	Categorize ICH activities. Write a note on evaluation of stability data.	05
	(c)	How herbal medicinal products are regulated as per WHO?	05