Seat No.: Enrolme		Enrolment No		
		GUJARAT TECHNOLOGICAL UNIVERSI M.PHARM- SEM-II-EXAMINATION – JULY 2012	[ΤΥ	
Subject code: 2920206 Subject Name: Clinical Research and Regulatory Affairs			Date: 09/07/2012	
Time: 10:30 am – 01:30 pm			Total Marks: 80	
Instructions:				
		pt any five questions.		
		suitable assumptions wherever necessary.		
		es to the right indicate full marks.		
	8			
Q.1	(a)	Write on design protocol as per parallel versus cross over desig	gns (6)	
		with suitable example.		
	(b)	Explain data management in clinical research.	(5)	
	(c)	Write the importance and essential content of investigator	(5)	
		brochure.		
Q.2	(a)	Explain basic ethical principles and ethical issues in clinical tri		
	(b)	What is IND? Enlist the cases in which the clinical hold can be	e (5)	
		imposed on IND prior to phase I investigation.	<i></i>	
•	(c)	Write a note on Abbreviated New Drug Application.	(5)	
Q.3	(a)	Write in brief about the various stages of drug discovery	y to (6)	
	(1)	development. Write on Phase IV clinical study.	(=)	
	(b)	Write a note on Institutional Review Board.	(5) (5)	
04	(c) (a)	Explain role of placebo in clinical study. Discuss clinical pharmacology section of NDA.	(5) (6)	
Q.4	(a) (b)	Explain role and responsibility of sponsor as per GCP guidelin		
	(c)	Give principle of sampling.	(5)	
Q.5	(e) (a)	Explain role and benefits of quality assurance in clinical resear		
X .0	(b)	Discuss contents of case report form.	(5)	
	(c)	Explain process to Import Drugs-T licence.	(5)	
Q. 6	(a)	Which data required to be submitted to import and manufactu		
C		new drug already approved in the country as per schedule Y?		
	(b)	Give outline of IND toxicolology study.	(5)	
	(c)	Describe data submitted for chemistry requirements of NDA.	(5)	
Q.7	(a)	Explain format and contents of NDA.	(6)	
	(b)	Discuss regulatory requirements and methods of BE/BA studie		
	(c)	Explain essential documents in clinical trials.	(5)	