

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

M. Pharm. Semester – IIND Examination – June/July- 2011

Subject code: 920206

Subject Name: Clinical Research and Regulatory Affairs

Date: 04/07/2011

Time: 10:30 am – 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)	Explain objectives of various phases of clinical trial	06
	(b)	Illustrate flow of discovery process with diagram	05
	(c)	Pre-clinical testing in drug discovery process is vital - Justify	05
Q.2	(a)	What is randomization? Enumerate different methods to achieve randomization. Explain Restricted randomization	06
	(b)	Write components of Clinical Trial Protocol.	05
	(c)	Explain Inclusion and exclusion criteria using a hypothetical case of a clinical trial.	05
Q.3	(a)	Lay out essential elements of an ideal Informed Consent Document. Explain informed consent process in brief.	06
	(b)	Write a note on Audits and Inspections	05
	(c)	Explain various essential documents after completion of clinical trial	05
Q.4	(a)	Describe Data Management in clinical Research	06
	(b)	Write in brief about Abbreviated New Drug Application (ANDA)	05
	(c)	Discuss the responsibilities of Sponsor	05
Q.5	(a)	Write basic principles of ICH-GCP	06
	(b)	Enumerate different codes and guidelines pertaining to ethical issues in Clinical Research. Explain fundamental ethical principles underlying the conduct of research.	05
	(c)	Detail the process of obtaining approval for clinical trial as per Schedule Y in India.	05
Q.6	(a)	Discuss responsibilities of investigator with special reference to record keeping and data handling as per GCP.	06
	(b)	Discuss how termination of multicenter clinical study should be communicated and documented?	05
	(c)	Explain the responsibilities of Institutional Review Board	05
Q.7	(a)	Discuss blood Sampling in BA/BE studies	06
	(b)	Explain the following i) Pharmaceutical alternatives and ii) Pharmaceutical equivalents	05
	(c)	Explain various oral dosage forms along with regulatory requirements for their bioequivalence studies	05
