

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

M.PHARM- SEM-II-EXAMINATION – JULY 2012

Subject code: 2920206

Date: 09/07/2012

Subject Name: Clinical Research and Regulatory Affairs

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) Write on design protocol as per parallel versus cross over designs with suitable example. (6)
(b) Explain data management in clinical research. (5)
(c) Write the importance and essential content of investigator brochure. (5)
- Q.2** (a) Explain basic ethical principles and ethical issues in clinical trials. (6)
(b) What is IND? Enlist the cases in which the clinical hold can be imposed on IND prior to phase I investigation. (5)
(c) Write a note on Abbreviated New Drug Application. (5)
- Q.3** (a) Write in brief about the various stages of drug discovery to development. Write on Phase IV clinical study. (6)
(b) Write a note on Institutional Review Board. (5)
(c) Explain role of placebo in clinical study. (5)
- Q.4** (a) Discuss clinical pharmacology section of NDA. (6)
(b) Explain role and responsibility of sponsor as per GCP guideline. (5)
(c) Give principle of sampling. (5)
- Q.5** (a) Explain role and benefits of quality assurance in clinical research. (6)
(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 manufacture a new drug already approved in the country as per schedule Y? (6)
(b) Give outline of IND toxicology 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 studies. (5)
(c) Explain essential documents in clinical trials. (5)