

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.

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|-----|-----|--|----|
| 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 |
