Seat No:	Enrollment No:	

PARUL UNIVERSITY FACULTY OF PHARMACY

Pharm. D. (PB) Examination - May 2018

Year: 2 Date: 07/05/2018

Subject Code: 08207501 Time: 10:00 AM to 01:00 PM

Subject Name: Clinical Research Total Marks: 70

Instructions

- 1. Figures to the right indicate maximum marks.
- 2. Make suitable assumptions wherever necessary.

Q.1 Essay Type Questions. (any 2 out of 3) (15 Mark Each)

(30)

- 1. Define Drug Development Process. Explain various approaches to drug Discovery a) Pharmacological; b) Toxicological and c) IND Application.
- 2. Explain in detail, clinical trials and various phases of clinical trials.
- 3. Explain the Abbreviated New Drug Application Submission.

Q.2 Short Essay (Answer Any 4)

(20)

- 1. What is IRB? Write about composition and responsibilities of IRB.
- 2. Challenges in the implementation of guidelines.
- 3. Write short notes on Ethical guidelines in clinical research.
- 4. Roles and responsibilities of investigator as per ICH GCP.
- 5. Write short notes on Data Management and its Components.

Q.3 Short Answers (Answer All)

(20)

- 1. Designing of clinical study CRF.
- 2. Explain the criteria to involve children in conducting clinical research.
- 3. Overview of regulatory environment in USA, Europe and India.
- 4. Note on CIOMS.
- 5. Declaration of Helsinki.
- 6. Write full form of : i) ICF, ii) PIC.
- 7. Functions of Drug Controller General of India (DCGI).
- 8. Participant Identification Centers.
- 9. What are Contract research coordinators?
- 10. Drug Characterization.