Q.P. Code: 501326 Reg. no.:

Fifth Year Pharm D Degree Supplementary Examinations, January 2017

Clinical Research

Time: 3 Hours Total Marks: 70

- Answer all questions
- Draw diagrams wherever necessary

Essay: (3x10=30)

- 1. Discuss the ethical principles of central drugs standard control organization (CDSCO) guidelines.
- 2. Describe the roles and responsibilities of auditor and clinical research associate in conduct of clinical trial.
- 3. Explain the safety monitoring in clinical trials.

Short notes: (8x5=40)

- 4. Phase I and phase II clinical trials.
- 5. Explain about abbreviated new drug application (ANDA) submission.
- 6. Role of data safety monitoring board in clinical trial.
- 7. Regulatory environment in Europe.
- 8. Thalidomide disaster and Helsinki declaration.
- 9. What are the challenges in implementing ethical guidelines in clinical trial in India.
- 10. Data validation in clinical data management.
- 11. Essential documents required for conduct of clinical trials.
