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

Fifth Year Pharm D Degree Supplementary Examinations September 2023

Clinical Research

Time: 3 Hours Total Marks: 70

- Answer all questions to the point neatly and legibly Do not leave any blank pages between answers
 Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together Leave sufficient space between answers
- · Draw table/diagrams/flow charts wherever necessary

Essay: (3x10=30)

- 1. Describe briefly about roles and responsibilities of clinical research associate in clinical trial
- 2. Explain the Pharmacological and toxicological approaches to the drug discovery
- 3. Explain the ethical guidelines in clinical research. What are the challenges in implementation of guidelines

Short notes: (8x5=40)

- 4. Write a short note on IND
- 5. Define serious adverse events in clinical trials and responsibilities of investigators in reporting
- 6. Elaborate the steps involved in process to get NDA approval by US FDA
- 7. Explain the process of CRF designing in detail
- 8. Write a note on GCP guidelines
- 9. Explain methods of post marketing surveillance
- 10. Explain how bioequivalence study is conducted
- 11. Write a note on "Fast track" and "Priority review"
