0706E456

Candidate's Seat No:_____

M.Sc Sem.-2 Examination
P - 407
Clinical Research
June 2022

Time: 2-00 Hours]

[Max. Marks: 50

Instructions: All Questions in **Section I** carry equal marks.

Attempt any THREE questions in Section I

Question IX in Section II is COMPULSORY

SECTION I

Que. 1 Answer in Detail	
(i) Write a brief note on Sulfanilamide Disaster.	07
(ii) Explain the history of Thalidomide Tragedy and its Impact.	07
Que. 2 Answer in Detail	
(i) Enlist types of Clinical Trials and write a note on any 3 types.	07
(ii) Write a note on Phases of Drug Development	07
Que. 3 Answer in Detail	
(i) Explain in brief Study designs for assessing dose-response as per E4 Guideline	07
(ii) Explain Dose Response relationship curve along with its various interpretations.	07
Que. 4 Answer in Detail	
(i) Write a brief note on S7A guidelines.	07
(ii) Explain important highlights of S9 Guidelines.	07
Que. 5 Answer in Detail	
(i) Explain Preamble and General Principles of Declaration of Helsinki	07
(ii) Write a brief note on Part C basic applications of Belmont Report	07
Que. 6 Answer in Detail	
(i) Draw a Typical Organogram of Clinical Research Organisation and explain key	
functions of Quality assurance and Medical Writing department.	07
(ii) Explain Parallel and Crossover Designs with suitable examples	07
Que. 7 Answer in Detail	
(i) Write a note on Factorial designs and equivalence Trials	07
(ii) Explain Different types of Blinding in Clinical Trials.	07
Que. 8 Answer in Detail	
(i) Explain the Typical flow of Clinical Study through various departments in CRO.	07
(ii) Explain Protocol Deviation and SOP Deviation with suitable examples	
PTO	

Module IV Pharma- Medicine and Clinical Research

and actions taken in response to them

07

SECTION II

Que.9 Answer in short (Any eight)

08

- A. When was Belmont Report first Published?
- B. Define Null Hypothesis
- C. Define End Point Parameters
- D. What is Orange book?
- E. What are cross over designs?
- F. Define Meta analysis
- G. Which governing body regulates clinical trials in india?
- H. What is full form of SMO?.
- I. Can we use healthy volunteers in Anti Cancer drug trials? Why?
- J. What is therapeutic index?

