



**PHARMACOLOGICAL SCREENING METHODS
AND CLINICAL EVALUATION**

PAPER III

(RS 2 & RS 3)

Q.P. CODE: 9243

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary. Answer all questions

LONG ESSAY (Answer any TWO)

2 X 20 = 40 Marks

1. a) Explain various mechanisms of drug transport across cell barrier with neat diagrams
b) Define receptor. Classify and discuss various types of receptors with neat diagrams
2. a) What is bioassay? Explain the bioassay of Insulin
b) Define transgenic animals. Discuss the importance of transgenic animals in drug screening
3. a) Discuss the various phases of clinical trials
b) Discuss the rational drug use

SHORT ESSAY (Answer any FIVE)

5 X 10 = 50 Marks

4. Null hypothesis and coefficient of variation
5. Variability in drug action due to age, sex and weight
6. Wilcoxon test and their application in drug research
7. Screening of antimalarial agents
8. Applications of cell lines in drug screening
9. Phase I and phase II metabolism of a drug

SHORT NOTES

2 X 5 = 10 Marks

10. Bioequivalence
11. ICMR guidelines

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