

Rajiv Gandhi University of Health Sciences
First Year M. Pharm Degree Examination – May 2012

[Time: 3 Hours]

[Max. Marks: 100]

**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) Define biotransformation. Describe type – II biotransformation reaction.
b) Discuss the role of enzyme induction in drug response
2. a) What is bioassay? Classify various types bioassay and explain the bioassay of Oxytocin
b) What is transgenic animals and how they differ from normal animal? Explain the importance of transgenic animals in experimental pharmacology
3. a) Discuss the various methods of screening analgesics
b) Describe any two methods of screening an anti ulcer drugs

SHORT ESSAY (Answer any FIVE)

5 X 10 = 50 Marks

4. Application of cell lines in drug screening
5. Variability in drug action due to age, sex and weight
6. Student 't' test and its application in pharmacological studies
7. Wilcoxon test and their application in drug research
8. Patch clamp technique
9. Any two methods of screening of Anti Anginal Drugs

SHORT NOTES

2 X 5 = 10 Marks

10. Rational drug concept
11. Informed consent form

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