

Rajiv Gandhi University of Health Sciences
First Year M.Pharm Degree Examination – May 2011

[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) Explain the various methods of Bio – assay. Give its merits & demerits
b) Discuss the bioassay of Posterior pituitary extract.
2. a) How will you experimentally induce diabetes in laboratory animals
b) Explain the various methods used to screen antidiabetic drugs
3. Arrive at the various pharmacokinetic parameters following one compartment model extra vascular drug administration

SHORT ESSAY (Answer any FIVE)

5 X 10 = 50 Marks

4. Volume of distribution & its importance
5. List various screening models for anti – arrhythmic activity. Explain an in – vitro & an in – vivo method
6. Kinetics of drug absorption
7. Explain the different patch clamp techniques
8. General characteristics of Lab Mice
9. List the different screening models for anti-inflammatory drugs. Explain Randal selato model

SHORT NOTES

2 X 5 = 10 Marks

10. Institutional animal ethical committee (IAEC)
11. Role of genetics in variability of drug metabolism

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