

(LI 125)

APRIL 2016

Sub. Code:2022

**M.D. DEGREE EXAMINATION
BRANCH VI – PHARMACOLOGY**

**PAPER I – GENERAL PHARMACOLOGY, EXPERIMENTAL
PHARMACOLOGY AND BIOASSAY**

Q.P.Code: 202022

Time: Three Hours

Maximum: 100 Marks

I. Essay:

(2 x 10 = 20)

1. Describe the various screening methods for evaluating drugs used in gastric ulcers.
2. Define Adverse drug reaction. Explain the various mechanisms of drug toxicity.

II. Short Questions:

(8 x 5 = 40)

1. Sample size.
2. Rational drug therapy.
3. Enzyme linked receptors.
4. Non competitive inhibition.
5. Physiological salt solution.
6. Graded response assay.
7. Screening methods for diuretics.
8. HPLC.

III. Reasoning Out:

(4 x 5 = 20)

1. Guinea pig as an experimental animal.
2. Role of hybridoma technology.
3. Role of informed consent in clinical research.
4. Euthanasia methods in experimental animals.

IV. Very Short Answers:

(10 x 2 = 20)

1. Enema as a route of drug administration.
2. Methods for delaying drug absorption.
3. High extraction drugs.
4. MDR1 transporter.
5. Lead compound.
6. Inverse tolerance.
7. Student 't' test.
8. Langendorff heart.
9. Nude mice vs. Beige mice.
10. Somersault test.
