

**Rajiv Gandhi University of Health Sciences**  
**M.D. Degree Examination – OCTOBER 2015**

[Time: 3 Hours]

[Max. Marks: 100]

**PHARMACOLOGY**  
**BASIC AND GENERAL PHARMACOLOGY**  
**PAPER – I (RS)**

**Q.P. CODE : 7405**

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

**LONG ESSAYS**

**2 X 20 = 40 Marks**

1. Discuss in detail the role of enzymes in drug action.
2. Discuss the toxicokinetic considerations in the management of drug overdose.

**SHORT ESSAYS**

**6 X 10 = 60 Marks**

3. Optimizing drug delivery into lungs
4. Interferons
5. Role of 5-HT in health and disease
6. Drug use during lactation
7. Protocol designing
8. Essential medicine(s) concept and its advantages

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Rajiv Gandhi University of Health Sciences, Karnataka  
Post Graduate Degree Examination – OCTOBER 2015

Time: Three Hours

Max. Marks: 100 Marks

**MD PHARMACOLOGY**  
**PAPER- II**  
**(Revised Scheme)**  
**SYSTEMIC PHARMACOLOGY - I**  
**Q. P. CODE: 7406**

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

**LONG ESSAYS**

**2 x 20 = 40 Marks**

1. Discuss the structure activity relationship of Phenothiazines. Add a note on the pharmacology of newer antianxiety drugs.
2. Discuss the pharmacology of antiarrhythmic drugs.

**SHORT ESSAYS**

**6 x 10 = 60 Marks**

3. Anti platelet drugs
4. HMG CO-A reductase inhibitors
5. Drugs used in organophosphorus poisoning
6. Potassium sparing diuretics
7. Erythropoietin
8. Cognitive enhancers (Nootropics)

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Rajiv Gandhi University of Health Sciences, Karnataka  
Post Graduate Degree Examination – OCTOBER 2015

Time: Three Hours

Max. Marks: 100 Marks

**MD PHARMACOLOGY**  
**PAPER- III**  
**(Revised Scheme)**  
**SYSTEMIC PHARMACOLOGY - II**  
**Q. P. CODE: 7407**

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

**LONG ESSAYS**

**2 x 20 = 40 Marks**

1. Describe the mechanism of action of anti microbial agents. Discuss the therapeutic uses of  $\beta$ -lactam antibiotics.
2. Describe the synthesis of thyroid hormones. Describe the mechanisms of action of anti-thyroid drugs.

**SHORT ESSAYS**

**6 x 10 = 60 Marks**

3. Azole derivatives in fungal infections
4. Drugs used in chloroquine resistant malaria
5. Multi drug therapy of HIV infection
6. Paclitaxel
7. Pharmacotherapy of acute adrenal insufficiency
8. Cephalosporins advantages of each generation and newer Cephalosporins

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Rajiv Gandhi University of Health Sciences, Karnataka  
Post Graduate Degree Examination – OCTOBER 2015

Time: Three Hours

Max. Marks: 100 Marks

**MD PHARMACOLOGY**  
**PAPER- IV**  
**(Revised Scheme)**  
**CLINICAL PHARMACOLOGY**  
**Q. P. CODE: 7408**

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

**LONG ESSAYS**

**2 x 20 = 40 Marks**

1. Discuss the recent advances in the treatment of osteoporosis
2. Discuss the methods involved in screening a compound supposed to have anti-inflammatory activity.

**SHORT ESSAYS**

**6 x 10 = 60 Marks**

3. Limitations of animal testing
4. Phase '0' clinical trials
5. Confounding factors in clinical trials
6. Methods of evaluation of analgesics
7. Drug utilization studies
8. Sampling methods in clinical trials

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