

Rajiv Gandhi University of Health Sciences, Karnataka  
Post Graduate Degree Examination – JUNE 2016

Time: Three Hours

Max. Marks: 100 Marks

**MD PHARMACOLOGY**  
**PAPER- I**  
**(Revised Scheme)**  
**BASIC AND GENERAL PHARMACOLOGY**  
**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. Write in detail the physicochemical factors influencing the transfer of drugs across cell membrane.
2. Discuss the unpredictable adverse drug reactions.

**SHORT ESSAYS**

**6 x 10 = 60 Marks**

3. Orphan drugs
4. Drugs receptors in pharmacodynamics
5. Newer drug delivery systems
6. Current concept of drug dependence
7. Standard error
8. Nephrotoxic drugs

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# Rajiv Gandhi University of Health Sciences 71

M.D. Degree Examination – JUNE 2016

[Time: 3 Hours]

[Max. Marks: 100]

## PHARMACOLOGY

### SYSTEMIC PHARMACOLOGY - I

#### PAPER – II (RS)

**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 pharmacology, therapeutic implications and recent advances in glutamate receptors.
2. Discuss the pathophysiology and recent advances in the treatment of congestive cardiac failure.

#### SHORT ESSAYS

**6 X 10 = 60 Marks**

3. Metabolic modulators in ischemic heart diseases
4. Atropine substitutes
5. Anti – anxiety agents
6. Platelet activating factor
7. Endothelins
8. Pharmacotherapy of Inflammatory Bowel Diseases.

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# Rajiv Gandhi University of Health Sciences

M.D. Degree Examination – JULY 2016

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[Time: 3 Hours]

[Max. Marks: 100]

## PHARMACOLOGY

### SYSTEMIC PHARMACOLOGY - II

#### PAPER – III (RS)

## 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. Discuss the recent advances in the pharmacotherapy of Type-II Diabetes Mellitus.
2. Discuss recent advances in the treatment of malaria. Briefly outline the treatment of cerebral malaria.

#### SHORT ESSAYS

6 X 10 = 60 Marks

3. Neurosteroids
4. Regimes in – antiretroviral therapy
5. Newer  $\beta$ -lactam antibiotics
6. Antiseptics and disinfectants
7. Anti – pseudomonal agents
8. Selective Estrogen Receptor Modulators (SERMs)

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# Rajiv Gandhi University of Health Sciences 73

M.D. Degree Examination – JULY 2016

[Time: 3 Hours]

[Max. Marks: 100]

**PHARMACOLOGY**  
**CLINICAL PHARMACOLOGY**  
**PAPER – IV (RS)**

**Q.P. CODE : 7408**

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 evolution of Ethical issues in Clinical Research and outline the principles of Declaration of Helsinki.
2. Discuss the methods involved in screening of a potential anti – inflammatory agent.

**SHORT ESSAYS**

**6 X 10 = 60 Marks**

3. Phases of clinical trials
4. Pharmacovigilance methods
5. Status of herbal drug research in India
6. Role of biostatistician in clinical research
7. Pharmacology of angiogenesis
8. Academia – Industry interactions in drug development

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