

Q.P CODE : 2301

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

**Post Graduate Degree Examination – April / May 2011**

Time : 3 Hrs.

[Max. Marks : 100]

**M.D. PHARMACOLOGY**

**PAPER - I**

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



**LONG ESSAY**

**2 X 20 = 40 Marks**

1. Discuss the signaling mechanisms and drug action
2. Discuss the methods of biotransformation of drugs and clinical relevance of drug metabolism

**SHORT ESSAY**

**6X 10 = 60 Marks**

3. Membrane transporters
4. Gene therapy
5. Drug therapy in pregnancy
6. Essential drugs
7. Student 't' test
8. New drug delivery systems

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Q.P CODE : 2302

**SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH**

(A DEEMED TO BE UNIVERSITY)

**Post Graduate Degree Examination – April / May 2011**

Time : 3 Hrs.

[Max. Marks : 100]

**M.D. PHARMACOLOGY**

**PAPER - II**

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



**LONG ESSAY**

2 X 20 = 40 Marks

1. Discuss the various neurotransmitters in the central nervous system and their pharmacological applications
2. Discuss the drug therapy of hyperlipidemia

**SHORT ESSAY**

6X 10 = 60 Marks

3. Use of beta adrenergic blockers in heart failure
4. Discuss the pharmacological aspects of botulinum toxin
5. Drug therapy of irritable bowel syndrome
6. Tizanidine
7. Nicorandil
8. Anti-tumour necrosis factor therapy

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Q.P CODE : 2303

**SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH**  
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**Post Graduate Degree Examination – April / May 2011**

Time : 3 Hrs.

[Max. Marks : 100]

**M.D. PHARMACOLOGY**

**PAPER - III**

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



**LONG ESSAY**

**2 X 20 = 40 Marks**

1. Discuss the new developments in the drug treatment of cancer
2. Write an essay on vasoactive peptides

**SHORT ESSAY**

**6X 10 = 60 Marks**

3. Mechanisms of bacterial resistance to antimicrobials
4. Monoclonal antibodies as therapeutic agents
5. Oseltamivir
6. Interferons as therapeutic agents
7. Therapeutic uses of thalidomide
8. Gonadotropin relasing hormone analogs

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Q.P CODE : 2304

**SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH**

(A DEEMED TO BE UNIVERSITY)

**Post Graduate Degree Examination – April / May 2011**

Time : 3 Hrs.

[Max. Marks : 100]

**M.D. PHARMACOLOGY**

**PAPER - IV**

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



**LONG ESSAY**

**2 X 20 = 40 Marks**

1. Describe the evaluation techniques (Screening methods) for antiseizure drugs.
2. Discuss the principles of clinical pharmacokinetics and designing of rational dosage regime

**SHORT ESSAY**

**6X 10 = 60 Marks**

3. Double blind trials
4. Radioimmunoassay
5. Pharmacovigilance
6. Rational drug design
7. Plasma protein binding
8. Genetic polymorphism

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