Reg. No	0.			

MD (PHARMACOLOGY) DEGREE EXAMINATION – APRIL 2015

SUBJECT: PAPER I: GENERAL PHARMACOLOGICAL PRINCIPLES AND APPLIED SCIENCES

Wednesday, April 01, 2015

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- Essay questions:
- 1. Discuss the role of dopamine in central nervous system disorders.

(15 marks)

2. Discuss the passage of drugs across the biological membranes.

(15 marks)

- 3. Write briefly on:
- 3A. Phototoxicity
- 3B. Down regulation of receptors and its clinical importance
- 3C. HER2 receptors
- 3D. Blood brain barrier
- 3E. Advantages and disadvantages of topical application of drugs
- 3F. Drugs contraindicated during breast feeding
- 3G. Methods to prolong action of orally administered drugs
- 3H. Loading dose
- 31. Drug releasing implants
- 3.J. Risk benefit ratio

 $(7 \text{ marks} \times 10 = 70 \text{ marks})$

Reg. No.					

MD (PHARMACOLOGY) DEGREE EXAMINATION – APRIL 2015

SUBJECT: PAPER II: SYSTEMIC PHARMACOLOGY, CHEMOTHERAPY AND THERAPEUTICS

Thursday, April 02, 2015

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- 1. Discuss drug treatment of cardiac edema.

(15 marks)

2. Discuss various drugs used in malaria.

(15 marks)

- 3. Write briefly on:
- 3A. Teicoplanin
- 3B. Selective alpha₂ agonists
- 3C. Beta lactamase inhibitors
- 3D. Plasma expanders
- 3E. Ondansetron
- 3F. Steroid receptors
- 3G. Caspofungin
- 3H. Drugs for myasthenia gravis
- 3I. Dapagliflozin
- 3J. Drugs for vertigo

 $(7 \text{ marks} \times 10 = 70 \text{ marks})$

Reg. No.				

MD (PHARMACOLOGY) DEGREE EXAMINATION – APRIL 2015

SUBJECT: PAPER III: EXPERIMENTAL PHARMACOLOGY, BIOASSAY AND STATISTICS

Saturday, April 04, 2015

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- Essay questions:
- 1. Discuss the screening methods to evaluate analgesic activity of drugs.

(15 marks)

2. Discuss the experimental methods to evaluate antiasthmatic action of drugs.

(15 marks)

- 3. Write briefly on:
- 3A. Chemical induced carcinoma models
- 3B. ANOVA
- 3C. Acute toxicity studies
- 3D. Guinea pig as an experimental animal
- 3E. Methods of euthanasia in animals
- 3F. Ethics committee
- 3G. Streptozotocin induced diabetes
- 3H. Writing levers in experimental pharmacology
- 3I. Dose response relationship
- 3J. Student's t- test

 $(7 \text{ marks} \times 10 = 70 \text{ marks})$

Reg. No.		

MD (PHARMACOLOGY) DEGREE EXAMINATION – APRIL 2015

SUBJECT: PAPER IV: CLINICAL PHARMACOLOGY AND RECENT ADVANCES

Monday, April 06, 2015

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- Write your answers that are brief, clear, relevant and legible.
- Illustrate your answers with neatly drawn and correctly labeled diagrams wherever appropriate.
- **Essay questions:**
- 1. Discuss the recent advances in the management of schizophrenia.

(15 marks)

2. Explain the drug development and approval process.

(15 marks)

- 3. Write briefly on:
- 3A. Me too drugs
- 3B. Newer vasodilators
- 3C. Recent advances in the treatment of congestive heart failure
- 3D. P drug concept
- 3E. Role of monoclonal antibodies in rheumatoid arthritis
- 3F. Antiglucocorticoids
- 3G. Expedited review
- 3H. Counterfeit drugs
- 3I. Drug eluting stents
- 3J. Recent supreme court rulings on clinical trials

 $(7 \text{ marks} \times 10 = 70 \text{ marks})$