Reg. No.			

MD (PHARMACOLOGY) DEGREE EXAMINATION - APRIL 2013

SUBJECT: PAPER I: GENERAL PHARMACOLOGICAL PRINCIPLES AND APPLIED SCIENCES

Tuesday, April 02, 2013

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- Write your answers that are brief, clear, relevant and legible.
- Æ Illustrate your answers with neatly drawn and correctly labeled diagrams wherever appropriate.
- 1. Essay Questions:
- 1A. Discuss the effects of liver and renal diseases on drug elimination with suitable examples.
- 1B. Discuss the transducer mechanisms involved in drug action.

 $(20 \times 2 = 40 \text{ marks})$

- 2. Write briefly on:
- 2A. High-performance liquid chromatography (HPLC)
- 2B. Rational use of drugs
- 2C. Solid drug dosage forms
- 2D. Pharmacodynamic drug interactions
- 2E. Fixed-dose drug combinations
- 2F. Loading dose

 $(10\times6 = 60 \text{ marks})$

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MD (PHARMACOLOGY) DEGREE EXAMINATION - APRIL 2013

SUBJECT: PAPER II: SYSTEMIC PHARMACOLOGY, CHEMOTHERAPY AND THERAPEUTICS

Wednesday, April 03, 2013

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- ✓ Illustrate your answers with neatly drawn and correctly labeled diagrams wherever appropriate.
- 1. Essay Questions:
- 1A. Discuss the pharmacology of drugs affecting the coagulation of blood.
- 1B. Discuss the pharmacotherapy of Parkinsonism.

 $(20 \times 2 = 40 \text{ marks})$

- 2. Write briefly on:
- 2A. Peroxisome proliferator-activated receptor agonists
- 2B. 3rd generation cephalosporins
- 2C. 5HT receptor antagonists
- 2D. Drugs used in hypertensive emergency
- 2E. Cell cycle kinetics and anticancer effect of drugs
- 2F. Conscious sedation

 $(10 \times 6 = 60 \text{ marks})$

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MD (PHARMACOLOGY) DEGREE EXAMINATION - APRIL 2013

SUBJECT: PAPER III: EXPERIMENTAL PHARMACOLOGY, BIOASSAY AND STATISTICS

Thursday, April 04, 2013

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.
- 1. Essay Questions:
- 1A. Discuss the methods of preclinical toxicity testing and its importance in drug development.
- 1B. Discuss the screening methods to evaluate a compound for its anti inflammatory activity.

 $(20 \times 2 = 40 \text{ marks})$

- 2. Write briefly on:
- 2A. Alternatives to use of animals in research
- 2B. Animal models for testing spatial learning and memory in rats
- 2C. Types of data presentation
- 2D. Euthanasia methods in experimental study
- 2E. Shay rat
- 2F. Guinea-pig as experimental animal

 $(10 \times 6 = 60 \text{ marks})$

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MD (PHARMACOLOGY) DEGREE EXAMINATION – APRIL 2013 SUBJECT: PAPER IV: CLINICAL PHARMACOLOGY AND RECENT ADVANCES

Friday, April 05, 2013

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- Write your answers that are brief, clear, relevant and legible.
- Æ Illustrate your answers with neatly drawn and correctly labeled diagrams wherever appropriate.

1. Essay questions:

- 1A. Discuss the recent advances in antiretroviral drug therapy. Add a note on current NACO guidelines for the treatment and post-exposure prophylaxis of HIV infection.
- 1B. Discuss the steps involved in adverse drug reaction monitoring. Add a note on the pharmacovigilance programs of India.

 $(20 \times 2 = 40 \text{ marks})$

2. Write briefly on:

- 2A. Total intravenous general anesthesia
- 2B. Recent advances in the management of Alzheimer's disease
- 2C. Calcimimetics
- 2D. Sugammadex
- 2E. Good manufacturing practices
- 2F. Phase IIIa clinical trial

 $(10 \times 6 = 60 \text{ marks})$