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# MD (PHARMACOLOGY) DEGREE EXAMINATION – APRIL 2017 SUBJECT: PAPER I: GENERAL PHARMACOLOGICAL PRINCIPLES AND APPLIED SCIENCES

Monday, April 03, 2017

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- **Essay Questions:**
- 1. Explain briefly the second messengers.

(15 marks)

2. Explain various factors that affect bioavailability of drugs.

(15 marks)

- 3. Write briefly on:
- 3A. Toxicokinetics
- 3B. Radioimmunoassay
- 3C. Sir Henry Dale
- 3D. Nanomedicine
- 3E. Over the counter drugs
- 3F. Biopharmaceutics
- 3G. Structure activity relationships
- 3H. Drug clearance
- 3I. Non-microsomal enzymes
- 3J. Enzyme inducers

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

Reg. No.			

# MD (PHARMACOLOGY) DEGREE EXAMINATION – APRIL 2017

SUBJECT: PAPER II: SYSTEMIC PHARMACOLOGY, CHEMOTHERAPY AND THERAPEUTICS

Tuesday, April 04, 2017

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- **Essay Questions:**
- 1. Discuss briefly class 1 antiarrhythmic drugs.

(15 marks)

2. Explain the current status of newer antiepileptic drugs.

(15 marks)

- 3. Write briefly on:
- 3A. NMDA receptors
- 3B. Pioglitazone- current status
- 3C. Linezolid
- 3D. Liposomal amphotericin-B
- 3E.  $\beta_3$  receptors
- 3F. Thrombolytic agents
- 3G. Injectable contraceptives
- 3H. Inhibitors of Na<sup>+</sup>-Cl<sup>-</sup> symport
- 3I. Lugol's iodine
- 3J. Travoprost

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

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## MD (PHARMACOLOGY) DEGREE EXAMINATION – APRIL 2017

SUBJECT: PAPER III: EXPERIMENTAL PHARMACOLOGY, BIOASSAY AND STATISTICS

Wednesday, April 05, 2017

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- **Essay questions:**
- 1A. Discuss the screening methods to evaluate antianxiety drugs.

(15 marks)

1B. Explain the methods involved in testing teratogenicity in animals.

(15 marks)

- 3. Write briefly on:
- 3A. Physiological salt solutions
- 3B. Kindling
- 3C. Pole climbing test
- 3D. Infiltration anesthesia
- 3E. Gene knockout
- 3F. Catalepsy
- 3G. Bacterial sensitivity testing
- 3H. Paired 't' test
- 3I. Confidence interval
- 3J. Tail flick model

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

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# MD (PHARMACOLOGY) DEGREE EXAMINATION – APRIL 2017 SUBJECT: PAPER IV: CLINICAL PHARMACOLOGY AND RECENT ADVANCES

Thursday, April 06, 2017

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- 1. Discuss the status and role of beta blockers in heart failure.

(15 marks)

2. What is pharmacoeconomics? Explain the various pharmacoeconomic evaluations and its role in drug discovery.

(15 marks)

- 3. Write briefly on:
- 3A. Drug therapy of migraine
- 3B. Newer uses of metformin
- 3C. Drugs modulating endothelins
- 3D. Toxins in therapy
- 3E. Melatonin
- 3F. Drug treatment of ADHD
- 3G. Drugs for psoriasis
- 3H. Fibrinolytics
- 3I. MDR Tuberculosis
- 3J. Imatinib

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