Reg. No.

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

Tuesday, October 03, 2017

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- **Essay Questions:**
- 1. Explain various phase 1 biotransformation reactions.

(15 marks)

2. Discuss pharmacogenomics with examples.

(15 marks)

- 3. Write briefly on:
- 3A. Graded dose response curve
- 3B. Type B adverse drug reactions
- 3C. Enzyme linked receptors
- 3D. Sources of drugs
- 3E. Drug nomenclature
- 3F. Tolerogens
- 3G. Minimum inhibitory concentration
- 3H. Factors governing the choice of route of drug administration
- 3I. Competitive antagonism
- 3J. Carrier mediated transport

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

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MD (PHARMACOLOGY) DEGREE EXAMINATION - OCTOBER 2017

SUBJECT: PAPER II: SYSTEMIC PHARMACOLOGY, CHEMOTHERAPY AND THERAPEUTICS

Wednesday, October 04, 2017

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- **Essay Questions:**
- 1. Explain adrenergic receptors and discuss the drugs modifying their function.

(15 marks)

2. Discuss semi-synthetic penicillins.

(15 marks)

- 3. Write briefly on:
- 3A. Treatment of neutropenia
- 3B. m-TOR inhibitors
- 3C. Vectors for gene therapy
- 3D. Drugs for irritable bowel syndrome
- 3E. Drugs for ectoparasites
- 3F. Oximes
- 3G. Fourth generation cephalosporins
- 3H. Stanazolol
- 3I. Mesna
- 3J. Infliximab

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

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MD (PHARMACOLOGY) DEGREE EXAMINATION – OCTOBER 2017 SUBJECT: PAPER III: EXPERIMENTAL PHARMACOLOGY, BIOASSAY AND STATISTICS

Thursday, October 05, 2017

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- **Essay questions:**
- 1. Discuss the in vivo screening methods for anticancer drugs.

(15 marks)

2. Explain the methods involved in testing anti-inflammatory drugs.

(15 marks)

- 3. Write briefly on:
- 3A. Ultraviolet Erythema
- 3B. Pentylenetetrazole
- 3C. Forced swim test
- 3D. Chi-Square test
- 3E. Conditioned avoidance response
- 3F. Aconitine induced arrhythmia
- 3G. Pyloric ligation
- 3H. Null hypothesis
- 3I. P value
- 3J. Screening methods for cough suppressants

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



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

Friday, October 06, 2017

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- **Essay Questions:**
- 1. Discuss the recent advances in the management of leprosy.

(15 marks)

2. Discuss the mechanism of action of various drugs used in bronchial asthma.

(15 marks)

- 3. Write briefly on:
- 3A. Propofol
- 3B. Hormone replacement therapy
- 3C. Antiestrogens
- 3D. Saxagliptin
- 3E. Erlotinib
- 3F. Basic principles of human ethics
- 3G. Importance of therapeutic audit
- 3H. Erythropoietin
- 3I. Lead optimization
- 3J. Methods to prevent adverse effects of drugs

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