Reg. No.

MD (PHARMACOLOGY) DEGREE EXAMINATION - APRIL 2016

SUBJECT: PAPER I: GENERAL PHARMACOLOGICAL PRINCIPLES AND APPLIED SCIENCES

Monday, April 18, 2016

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

Answer ALL the questions.

Essay Questions:

1. Discuss the various pharmacokinetic principles and its clinical significance.

(15 marks)

2. Discuss chronopharmacology with examples.

(15 marks)

3. Write briefly on:

- 3A. Transporters as target of drug action
- 3B. Genetics as a factor modifying drug action
- 3C. Polypharmacy in geriatric population
- 3D. Drugs obtained from recombinant technology
- 3E. Irrational drug combinations
- 3F. Treatment of drug dependence
- 3G. Receptor regulation
- 3H. Food –drug interactions
- 3I. Orphan drugs
- 3J. Partial agonists and their clinical importance



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MD (PHARMACOLOGY) DEGREE EXAMINATION – APRIL 2016

SUBJECT: PAPER II: SYSTEMIC PHARMACOLOGY, CHEMOTHERAPY AND THERAPEUTICS

Tuesday, April 19, 2016

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- 1. Discuss various agents modulating renin angiotensin system.

(15 marks)

2. Discuss the various regimens for the management of P. falciparum malaria.

(15 marks)

- 3. Write briefly on:
- 3A. COX-2 inhibitors
- 3B. Hematopoietic growth factors
- 3C. Reverse transcriptase inhibitors
- 3D. Bacterial drug resistance
- 3E. Vinca alkaloids
- 3F. Current status of inotropic agents
- 3G. Telithromycin
- 3H. Non epileptic uses of antiepileptic drugs
- 3I. Atypical antipsychotics
- 3J. Prokinetic agents

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MD (PHARMACOLOGY) DEGREE EXAMINATION - APRIL 2016

SUBJECT: PAPER III: EXPERIMENTAL PHARMACOLOGY, BIOASSAY AND STATISTICS

Wednesday, April 20, 2016

Time: 14:00 – 17:00 Hrs.

- Answer ALL the questions.
- 1. Define Bioassay. Discuss various experimental methods of bioassay in animals.

(15 marks)

Max. Marks: 100

2. Discuss the screening methods of antidepressant drugs.

(15 marks)

- 3. Write briefly on:
- 3A. Institutional Animal Ethics Committee
- 3B. Rabbit as an experimental animal
- 3C. Cotton pellet induced granuloma
- 3D. Different methods of drug administration in rats
- 3E. Straub tail reaction
- 3F. Maximal electroshock model (MES)
- 3G. Carcinogenicity testing in animals
- 3H. Screening of antianginal drugs
- 3I. Hot plate method
- 3J. p-value

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MD (PHARMACOLOGY) DEGREE EXAMINATION – APRIL 2016 SUBJECT: PAPER IV: CLINICAL PHARMACOLOGY AND RECENT ADVANCES

Thursday, April 21, 2016

Time: 14:00 – 17:00 Hrs. Max. Marks: 100

- Answer ALL the questions.
- **Essay Questions:**
- 1. Write a protocol for phase III clinical trial for a drug with antihypertensive activity.

(15 marks)

2. Explain the therapeutic uses of estrogens.

(15 marks)

- 3. Write briefly on:
- 3A. Schedule Y
- 3B. DPP4 inhibitors
- 3C. Finasteride
- 3D. Granisetron
- 3E. Advantages of SSRIs
- 3F. Omalizumab
- 3G. GnRH analogues
- 3H. Pramlintide
- 3I. Ames test
- 3J. Meta-analysis