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MD (PHARMACOLOGY) DEGREE EXAMINATION – OCTOBER 2020

SUBJECT: PAPER I: GENERAL PHARMACOLOGICAL PRINCIPLES AND APPLIED SCIENCES

Monday, October 05, 2020

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- 1. Discuss on various factors affecting absorption of a drug.

(15 marks)

2. Discuss G –protein coupled receptors (GPCR).

(15 marks)

- 3. Write briefly on:
- 3A. Alexander Fleming
- 3B. High-performance liquid chromatography (HPLC)
- 3C. Pharmacogenetics
- 3D. Enzyme induction
- 3E. Bioequivalence
- 3F. Placebo
- 3G. Pathological diseases modifying drug action
- 3H. Clinical significance of plasma protein binding
- 3I. Drug compendia
- 3J. Drug dependence

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MD (PHARMACOLOGY) DEGREE EXAMINATION - OCTOBER 2020

SUBJECT: PAPER II: SYSTEMIC PHARMACOLOGY, CHEMOTHERAPY AND THERAPEUTICS

Tuesday, October 06, 2020

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

- Answer ALL the questions.
- 1. Discuss the pharmacotherapy of bronchial asthma.

(15 marks)

2. Discuss the role of opioids in pain control.

(15 marks)

- 3. Write briefly on:
- 3A. Neurological side effects of antipsychotic drugs
- 3B. Amantadine
- 3C. Drug therapy in Alzheimers disease
- 3D. Furosemide
- 3E. Parenteral vasodilators
- 3F. Alteplase
- 3G. Uricosuric agents
- 3H. Uses of Oxytocin
- 31. Diabetic ketoacidosis Management
- 3J. DNA gyrase inhibitors

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MD (PHARMACOLOGY) DEGREE EXAMINATION – OCTOBER 2020

SUBJECT: PAPER III: EXPERIMENTAL PHARMACOLOGY, BIOASSAY AND STATISTICS

Wednesday, October 07, 2020

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- 1. Discuss the screening methods to evaluate a compound for antihypertensive activity.

(15 marks)

2. Discuss the toxicity studies conducted in animals prior to initiation of clinical trial of the drug.

(15 marks)

- 3. Write briefly on:
- 3A. Anesthetics used in lab animals
- 3B. Behavioural assessment of antidepressant activity in rodents
- 3C. Assay of antiulcer agents
- 3D. Blood collection method in rats
- 3E. Chronic inflammatory animal models for screening drugs
- 3F. Transgenic mice
- 3G. Sample size estimation for a study
- 3H. "t" test in statistics
- 3I. Estrous cycle in rats
- 3J. Cumulative dose response

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MD (PHARMACOLOGY) DEGREE EXAMINATION – OCTOBER 2020

SUBJECT: PAPER IV: CLINICAL PHARMACOLOGY AND RECENT ADVANCES

Thursday, October 08, 2020

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- 1. Discuss pharmacovigilance and its impact on Indian set up.

(15 marks)

2. Discuss the drugs modulating GABAergic transmission.

(15 marks)

- 3. Write briefly on:
- 3A. Good Laboratory Practice
- 3B. Informed consent
- 3C. Therapeutic drug monitoring
- 3D. Meta-analysis
- 3E. Cinacalcet
- 3F. Post marketing surveillance
- 3G. Deflazacort
- 3H. Cost-effective analysis
- 31. Histone deacetylase inhibitors
- 3J. Ticagrelor