

Reg. No.

MANIPAL ACADEMY OF HIGHER EDUCATION
THIRD SEMESTER M.Sc. (MEDICAL PHARMACOLOGY) DEGREE
EXAMINATION – JANUARY 2020

SUBJECT: C N S (MPH 701)

Monday, January 06, 2020

Time: 14:00 – 16:30 Hrs.

Maximum Marks: 50

✍ Answer ALL the questions.

✍ Long Essays:

1. Classify benzodiazepines. Explain the mechanism of action, uses and adverse effects of diazepam.

(10 marks)

2. Discuss the anti-parkinsonian drugs which act by modulating dopaminergic system.

(10 marks)

3. Answer the following:

3A. Explain the mechanism of action, uses and adverse effects of Risperidone

3B. Drug therapy in bipolar disorder

3C. Explain the mechanism of action, uses and adverse effects of Rivastigmine

3D. Pharmacological actions of morphine on CNS

3E. Explain the uses and adverse effects of Lamotrigine

3F. Explain the mechanism of action, uses and adverse effects of Escitalopram

(5 marks × 6 = 30 marks)



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THIRD SEMESTER M.Sc. (MEDICAL PHARMACOLOGY) DEGREE
EXAMINATION – JANUARY 2020

SUBJECT: GIT, RS & AUTACOIDS (MPH 703)

Tuesday, January 07, 2020

Time: 14:00 – 16:30 Hrs.

Maximum Marks: 50

✍ **Answer ALL the questions.**

✍ **Long Essays:**

1. Classify laxatives with suitable examples. Explain the mechanism of action and adverse effects of any one group of drugs. Write a brief note on purgative abuse.

(4+2+2+2 = 10 marks)

2. Mention two groups of drugs used for prophylaxis and two groups of drugs used for treatment of bronchial asthma with suitable examples. Explain the mechanism of action of any one group. Explain in brief the various devices used for inhaled asthma medication.

(4+2+4 = 10 marks)

3. **Write short notes on:**

3A. Role of serotonin antagonists in therapy

3B. Dextromethorphan.

3C. Mechanism of action, uses and adverse effects of Racecadotril

3D. Proton pump inhibitors.

3E. Compare and contrast: Domperidone and Metoclopramide.

3F. Second generation antihistaminics.

(5 marks × 6 = 30 marks)



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MANIPAL ACADEMY OF HIGHER EDUCATION
THIRD SEMESTER M.Sc. (MEDICAL PHARMACOLOGY) DEGREE
EXAMINATION – JANUARY 2020

SUBJECT: EXPERIMENTAL PHARMACOLOGY (MPH 705)

Wednesday, January 08, 2020

Time: 14:00 – 16:30 Hrs.

Maximum Marks: 50

✍ Answer ALL the questions.

✍ Long Essays:

1. Discuss the methods involved in the preclinical evaluation of a compound with potential antianxiety activity.

(10 marks)

2. Describe the various toxicity studies to be conducted on a new chemical entity for investigational new drug application submission.

(10 marks)

3. Write short notes on:

3A. Rat as an experimental animal.

3B. Physical methods of euthanasia in experimental animals.

3C. Contents and role of each content in Tyrode solution.

3D. Chi-square test.

3E. HPLC

3F. Preclinical evaluation of antiepileptics potentially effective in grand mal epilepsy.

(5 marks × 6 = 30 marks)

