

Reg. No.									
----------	--	--	--	--	--	--	--	--	--

MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER M.Sc. (MEDICAL PHARMACOLOGY) DEGREE EXAMINATION – FEBRUARY/MARCH 2022

SUBJECT: CNS (MPH 701)

Monday, February 28, 2022

Time: 14:00 – 16:30 Hrs.

Maximum Marks: 50

✍ Answer ALL the questions.

✍ Long Essays:

1. Enumerate six antidepressants. Explain the mechanism of action, adverse effects and uses of any one.

(3+3+2+2 = 10 marks)

2. Classify drugs used in Parkinsonism. Explain the mechanism of action and adverse effects of any two groups.

(2+4+4 = 10 marks)

3. Write short note on:

3A. Therapeutic uses of ethyl alcohol

3B. Uses of morphine

3C. Mechanism of action and uses of sodium valproate

3D. Intravenous general anesthetics

3E. Drugs used in chronic gout

3F. Mechanism of action and adverse effects of aspirin

(5 marks × 6 = 30 marks)



MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER M.Sc. (MEDICAL PHARMACOLOGY) DEGREE EXAMINATION – FEBRUARY/MARCH 2022

SUBJECT: GIT, RS AND AUTACOIDS (MPH 703)

Tuesday, March 01, 2022

Time: 14:00 – 16:30 Hrs.

Maximum Marks: 50

✍ Answer ALL the questions.

✍ Long Essay:

1. Mention four groups of drugs with one example each that inhibit gastric acid secretion. Explain the mechanism of action of any one. Add a note on treatment regimen in *H pylori* peptic ulcer.

(4+3+3 = 10 marks)

2. List three groups of bronchodilators with one example each used in the treatment of bronchial asthma. Explain the mechanism of action and adverse effects of any one. Discuss briefly the role of glucocorticoids in bronchial asthma.

(3+4+3 = 10 marks)

3. Write short notes on:

3A. Explain the uses of prostaglandin analogues.

3B. Explain the mechanism of action, uses and adverse effects of metoclopramide.

3C. Write briefly on expectorants.

3D. Write the composition of oral rehydration salt solution and explain the rationale for the same.

3E. Explain the mechanism of action, adverse effects and contraindications of sumatriptan.

3F. Name two first and second generation antihistaminics. Explain the advantages of second generation antihistaminics over first generation antihistaminics.

(5 marks × 6 = 30 marks)



MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER M.Sc. (MEDICAL PHARMACOLOGY) DEGREE EXAMINATION – FEBRUARY/MARCH 2022

SUBJECT: EXPERIMENTAL PHARMACOLOGY (MPH 705)

Wednesday, March 02, 2022

Time: 14:00 – 16:30 Hrs.

Maximum Marks: 50

✍ Answer ALL the questions.

✍ Long Essays:

1. Describe the CPSCEA guidelines with regard to the principles for scientific experiments on animals.
(10 marks)

2. Describe the screening methods for the evaluation of analgesics.
(10 marks)

3. Write short notes on:
 - 3A. Methods of anaesthetizing animals
 - 3B. Fluorescence spectroscopy
 - 3C. Water maze test
 - 3D. Special toxicity studies
 - 3E. High throughput screening
 - 3F. Dose response curve

(5 marks × 6 = 30 marks)

