

MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

MD (PHARMACOLOGY) DEGREE EXAMINATION – JULY 2005

SUBJECT: PAPER I: BASIC SCIENCE RELATED TO PHARMACOLOGY & BASIC PRINCIPLES IN PHARMACOLOGY

Monday, July 04, 2005

Time: 3 Hrs.

Max. Marks: 100

✍ Answer all the questions

1. Explain the various phases of biotransformation and discuss the factors affecting it.
(30 marks)

- 2A. Discuss the physiology of adrenergic transmission and explain how drugs can modify it.
- 2B. Discuss the role of inhibitory aminoacid neurotransmitters in C N S and drugs affecting it.
(20+20 = 40 marks)

3. Write short essay on:
 - 3A. Essential drug concept.
 - 3B. Transdermal therapeutic systems.
 - 3C. Fixed dose combinations.

(10×3=30 marks)

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SUBJECT: PAPER II: EXPERIMENTAL PHARMACOLOGY, BIOMETRICS AND CLINICAL TRIALS

Tuesday, July 05, 2005

Time: 3 Hrs.

Max. Marks: 100

✍ Answer all the questions

1. Discuss the experimental methods to assess the analgesic properties of drugs.
(30 marks)

2. Discuss the ethical aspects involved in clinical research.
(20 marks)

3. Discuss anaesthetics used in animal experiments.
(20 marks)

4. Write short notes on:
 - 4A. Pharmacoeconomics.
 - 4B. Null hypothesis.
 - 4C. Limitations of animal testing.

(10×3=30 marks)

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MD (PHARMACOLOGY) DEGREE EXAMINATION – JULY 2005

SUBJECT: PAPER III: SYSTEMIC PHARMACOLOGY AND THERAPEUTICS

Wednesday, July 06, 2005

Time: 3 Hrs.

Max. Marks: 100

✍ **Answer all the questions.**

1. Discuss hormonal contraception.

(30 marks)

2A. Discuss the therapeutic status of ACE – inhibitors.

2B. Discuss the Pharmacotherapy of bronchial asthma.

(20+20 = 40 marks)

3. Write notes on:

3A. Bisphosphonates.

3B. Current therapeutic status of thalidomide.

3C. GP II_b/III_a receptor antagonists.

(10×3 = 30 marks)

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MD (PHARMACOLOGY) DEGREE EXAMINATION – JULY 2005

SUBJECT: PAPER IV: APPLIED PHARMACOLOGY, TOXICOLOGY, PHARMACOEPIDEMIOLOGY & RECENT ADVANCES

Thursday, July 07, 2005

Time: 3 Hrs.

Max. Marks: 100

✍ **Answer all the questions.**

1. Discuss the role of Immunomodulators in therapy.

(30 marks)

2A. Discuss the drug therapy of Alzheimer's disease.

2B. Discuss the recent advances in the management of tuberculosis.

(20+20 = 40 marks)

3. Write notes on:

3A. Bosentan

3B. Ganciclovir

3C. Octreotide.

(10×3 = 30 marks)

