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# MANIPAL UNIVERSITY

## MD (PHARMACOLOGY) DEGREE EXAMINATION – APRIL 2007

### SUBJECT: PAPER I: GENERAL PHARMACOLOGY, CLINICAL PHARMACOLOGY, BIOSTATISTICS AND SCREENING

Monday, April 02, 2007

Time: 3 Hrs.

Max. Marks: 100

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- ✍ **Answer ALL the questions.**
- ✍ **Write your answers that are brief, clear, relevant and legible.**
- ✍ **Illustrate your answers with neatly drawn and correctly labelled diagrams wherever appropriate.**

1. Essay questions:

- 1A. Discuss the various drug transporters and their implication in therapeutics.
- 1B. Explain the various types of biotransformation reactions with suitable examples. Write briefly how genetics influences them.

(20×2 = 40 marks)

2. Write briefly on:

- 2A. Chi square test.
- 2B. Acute toxicity studies.
- 2C. Experimental evaluation of local anaesthetics.
- 2D. G-protein coupled receptor.
- 2E. Randomized double blind trial.
- 2F. GCP guidelines.

(10×6 = 60 marks)

# MANIPAL UNIVERSITY

## MD (PHARMACOLOGY) DEGREE EXAMINATION – APRIL 2007

SUBJECT: PAPER II: AUTONOMIC NERVOUS SYSTEM, CARDIOVASCULAR SYSTEM,  
DIURETICS, RESPIRATORY SYSTEM

Tuesday, April 03, 2007

Time: 3 Hrs.

Max. Marks: 100

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- ✍ **Answer ALL the questions.**
  - ✍ **Write your answers that are brief, clear, relevant and legible.**
  - ✍ **Illustrate your answers with neatly drawn and correctly labelled diagrams wherever appropriate.**

1. Essay questions:

- 1A. Discuss the pharmacodynamics and limitations of drugs used in the treatment of congestive heart failure. Add a note on current therapeutic strategies.
- 1B. Classify the drugs used in the treatment of bronchial asthma. Give a critical evaluation of currently used drugs in bronchial asthma.

(20×2 = 40 marks)

2. Write briefly on:

- 2A. Anticholinesterases used in therapeutics.
- 2B. Drugs used in hypertensive emergencies.
- 2C. Propranolol – therapeutic uses with rationale.
- 2D. Quinidine – clinical pharmacology.
- 2E. Loop diuretics.
- 2F. Atropine substitutes in ophthalmology.

(10×6 = 60 marks)

# MANIPAL UNIVERSITY

## MD (PHARMACOLOGY) DEGREE EXAMINATION – APRIL 2007

SUBJECT: PAPER III: CENTRAL NERVOUS SYSTEM, GASTRO INTESTINAL TRACT,  
BLOOD, AUTACOIDS, MISCELLANEOUS.

Wednesday, April 04, 2007

Time: 3 Hrs.

Max. Marks: 100

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- ✍ **Answer ALL the questions.**
- ✍ **Write your answers that are brief, clear, relevant and legible.**
- ✍ **Illustrate your answers with neatly drawn and correctly labelled diagrams wherever appropriate.**

1. Essay questions:

- 1A. Classify the drugs used in epilepsy with examples. Discuss the mechanism of action, uses, adverse effects and drug interactions for any one drug used in grandmal epilepsy. Write briefly on antiepileptics introduced recently.
- 1B. Discuss the pharmacology of drugs affecting 5HT receptors and their clinical utility.

(20×2 = 40 marks)

2. Write briefly on:

- 2A. DMARD.
- 2B. Atypical antidepressants.
- 2C. Plasma expanders.
- 2D. Proton pump inhibitors.
- 2E. Recent advances in treatment of obesity.
- 2F. Drug addiction and its management.

(10×6 = 60 marks)

# MANIPAL UNIVERSITY

## MD (PHARMACOLOGY) DEGREE EXAMINATION – APRIL 2007

SUBJECT: PAPER IV: CHEMOTHERAPY, HORMONES, VACCINES, VITAMINS.

Thursday, April 05, 2007

Time: 3 Hrs.

Max. Marks: 100

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- ✍ **Answer ALL the questions.**
  - ✍ **Write your answers that are brief, clear, relevant and legible.**
  - ✍ **Illustrate your answers with neatly drawn and correctly labelled diagrams wherever appropriate.**

1. Essay questions:

- 1A. Classify semi synthetic penicillins with examples. Discuss the kinetics, uses and limitations of anti-pseudomonal penicillin preparations.
- 1B. “Hormonal contraception” – Discuss the merits and demerits of various preparations used.

(20×2 = 40 marks)

2. Write briefly on:

- 2A. Pyridoxine.
- 2B. Protease inhibitors.
- 2C. Drugs used for Mycobacterium avium complex with their adverse effects and limitation.
- 2D. Anti-estrogens.
- 2E. Drug therapy of thyroid crisis with the basis for use of each drug.
- 2F. Newer insulin preparations – merits and limitations.

(10×6 = 60 marks)

