

Reg. No.

## MANIPAL UNIVERSITY

M.Sc. MEDICAL (FINAL) PHARMACOLOGY DEGREE EXAMINATION – AUGUST 2011

PAPER I: GENERAL PHARMACOLOGY, CLINICAL PHARMACOLOGY,  
EXPERIMENTAL PHARMACOLOGY, SCREENING, ANS

Monday, August 08, 2011

Time: 14:00 – 17:00 Hrs.

Maximum Marks: 100

- ✍ **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 necessary.**

1. Describe the various factors affecting absorption and distribution of a drug. Add a note on special drug delivery systems.

(20 marks)

2. Discuss the animal models for screening new compounds for their potential therapeutic utility in the treatment of epilepsy.

(20 marks)

3. **Write briefly on:**

3A. Nonparametric tests

3B. Post- marketing surveillance

3C. Selective alpha blockers

3D. Non-depolarizing skeletal muscle relaxants

3E. Clonidine

3F. G protein coupled receptors

(10×6 = 60 marks)



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## MANIPAL UNIVERSITY

M.Sc. MEDICAL (FINAL) PHARMACOLOGY DEGREE EXAMINATION – AUGUST 2011

PAPER II: SYSTEMIC PHARMACOLOGY, CNS, CVS, GIT, BLOOD, RENAL,  
RESPIRATORY SYSTEMS AND AUTACOIDS

Tuesday, August 09, 2011

Time: 14:00 – 17:00 Hrs.

Maximum Marks: 100

- ✍ 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 necessary.

1. Discuss the drugs used in the management of Parkinsonism. (20 marks)

2. Describe the pharmacological actions, adverse effects and clinical uses of calcium channel blockers. (20 marks)

3. Write briefly on:

- 3A. Directly acting thrombin inhibitors
- 3B. Racecadotril
- 3C. Leukotriene inhibitors
- 3D. Diuretics acting on proximal convoluted tubule
- 3E. Therapeutic uses of prostaglandins
- 3F. Atypical antipsychotics

(10×6 = 60 marks)



**MANIPAL UNIVERSITY****M.Sc. MEDICAL (FINAL) PHARMACOLOGY DEGREE EXAMINATION – AUGUST 2011  
PAPER III: SYSTEMIC PHARMACOLOGY, CHEMOTHERAPY, IMMUNOTHERAPY,  
ENDOCRINES AND MISCELLANEOUS TOPICS**

Wednesday, August 10, 2011

Time: 14:00 – 17:00 Hrs.

Maximum Marks: 100

- ✍ **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 necessary.**
1. Describe the mechanism of action and toxicities of antimalarial drugs. Add a note on chemoprophylaxis of malaria.  
(20 marks)
2. Discuss the pharmacological actions, adverse effects and clinical uses of glucocorticoids.  
(20 marks)
3. **Write briefly on:**
- 3A. Long acting insulin analogs
- 3B. Voriconazole
- 3C. Leprosy reactions
- 3D. Tacrolimus
- 3E. Peroxidase inhibitors
- 3F. Alkylating agents

(10×6 = 60 marks)

