

Reg. No.

MANIPAL UNIVERSITY

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

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

Monday, February 07, 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 drug-drug interactions with suitable examples. (20 marks)

2. With an illustration mention the various drugs that affect adrenergic transmission. Explain the cardiovascular uses and contraindications of beta adrenergic blockers. (20 marks)

3. Write briefly on:

- 3A. Methods to prolong drug action.
- 3B. Preclinical toxicity tests.
- 3C. Phase zero clinical trial.
- 3D. Dopamine.
- 3E. Drugs showing Hoffman's elimination and its clinical significance.
- 3F. Mann Whitney U test.

(10×6 = 60 marks)



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

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

Tuesday, February 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 drugs used in the management of endogenous depression. Explain the limitations of currently available antidepressants.

(20 marks)

2. Discuss the drugs modulating renin angiotensin aldosterone system.

(20 marks)

3. **Write briefly on:**

3A. Low molecular weight heparins.

3B. Rabeprazole.

3C. Bronchodilators.

3D. Uses and adverse effects of thiazide diuretics.

3E. Second generation antihistaminics.

3F. Intravenous general anesthetics.

(10×6 = 60 marks)



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PAPER III: SYSTEMIC PHARMACOLOGY, CHEMOTHERAPY, IMMUNOTHERAPY,
ENDOCRINES AND MISCELLANEOUS TOPICS

Wednesday, February 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. Classify antidiabetic drugs with examples. Explain the effects of insulin on its targets. Add a note on short acting insulin analogs.
(20 marks)
 2. Discuss plant products used in cancer chemotherapy.
(20 marks)
 3. Write briefly on:
 - 3A. Superinfection
 - 3B. Linezolid
 - 3C. Amphotericin B
 - 3D. Selective estrogen receptor modulators
 - 3E. Albendazole
 - 3F. HAART regimens

(10×6 = 60 marks)

