

MANIPAL UNIVERSITY

M.Sc. MEDICAL (FINAL) PHARMACOLOGY DEGREE EXAMINATION – JULY 2013

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

Thursday, July 11, 2013

Time: 14:00 – 17:00 Hrs.

Maximum Marks: 100

✍ **Answer ALL questions.**

1. Explain the term 'Bioavailability'. Discuss the various factors affecting bioavailability. (20 marks)
2. Discuss the preclinical toxicity studies in animals. (20 marks)
3. **Write briefly on:**
 - 3A. Drug antagonism
 - 3B. β - agonists
 - 3C. Chi-square test
 - 3D. Methods of screening antiulcer agents
 - 3E. Volume of distribution
 - 3F. Significance of bioassays

(10×6 = 60 marks)



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M.Sc. MEDICAL (FINAL) PHARMACOLOGY DEGREE EXAMINATION – JULY 2013

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

Friday, July 12, 2013

Time: 14:00 – 17:00 Hrs.

Maximum Marks: 100

✍ **Answer ALL questions.**

1. Classify opioid analgesics. Explain the pharmacological actions, adverse effects, contraindications and therapeutic uses of morphine.

(20 marks)

2. Explain the mechanism of action of various drugs used in hypertension. Add a note on management of hypertensive emergency.

(20 marks)

3. **Write briefly on:**

3A. Osmotic diuretics

3B. Selective β_2 -adrenergic agonists

3C. Fibrinolytics

3D. Lithium carbonate

3E. Prokinetic agents

3F. Phenytoin

(10×6 = 60 marks)



Reg. No.

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M.Sc. MEDICAL (FINAL) PHARMACOLOGY DEGREE EXAMINATION – JULY 2013
PAPER III: SYSTEMIC PHARMACOLOGY, CHEMOTHERAPY, IMMUNOTHERAPY,
ENDOCRINES AND MISCELLANEOUS TOPICS

Saturday, July 13, 2013

Time: 14:00 – 17:00 Hrs.

Maximum Marks: 100

☞ Answer ALL questions.

1. Classify antitubercular agents and explain the pharmacology of first line drugs. Add a note on short course regimen.

(20 marks)

2. Classify glucocorticoids. Explain the therapeutically useful actions of glucocorticoids and describe their adverse effects.

(20 marks)

3. Write briefly on:

3A. Cyclosporine

3B. Protease inhibitors

3C. Cyclophosphamide

3D. Sulfonylureas

3E. Bisphosphonates

3F. Clomiphene citrate

(10×6 = 60 marks)

