

MANIPAL UNIVERSITY**M.Sc. MEDICAL (FINAL) PHARMACOLOGY DEGREE EXAMINATION – JULY 2014****PAPER I: GENERAL PHARMACOLOGY, CLINICAL PHARMACOLOGY,
EXPERIMENTAL PHARMACOLOGY, SCREENING, ANS**

Thursday, July 10, 2014

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 labeled diagrams wherever appropriate.**

✍ Long Essay

1. Describe the factors modifying drug action. Add a note on advantages and disadvantages of fixed drug combination.

(15 marks)

2. Discuss the animal models for screening new compounds for their potential analgesic activity.

(15 marks)

3. Write briefly on:

- 3A. Sampling methods
- 3B. Phase 1 clinical trial
- 3C. Carvedilol
- 3D. Therapeutic uses of anticholinesterases
- 3E. Alpha methyl dopa
- 3F. Enzyme linked receptors
- 3G. Placebo
- 3H. Depolarising skeletal muscle relaxants
- 3I. Standard error of mean
- 3J. Essential medicine list

(7 marks × 10 = 70 marks)



MANIPAL UNIVERSITY**M.Sc. MEDICAL (FINAL) PHARMACOLOGY DEGREE EXAMINATION – JULY 2014****PAPER II: SYSTEMIC PHARMACOLOGY, CNS, CVS, GIT, BLOOD, RENAL,
RESPIRATORY SYSTEMS AND AUTACOIDS**

Friday, July 11, 2014

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 labeled diagrams wherever appropriate.**
- ✍ **Long Essay**
1. Classify antipsychotic drugs. Discuss the mechanism of action, uses and adverse effects of chlorpromazine
(15 marks)
2. Describe the pharmacological actions, adverse effects and clinical uses of angiotensin converting enzyme inhibitors.
(15 marks)
3. **Write briefly on:**
- 3A. Low molecular weight heparins
- 3B. Drugs reducing gastric acid secretion
- 3C. Acebrophylline
- 3D. Carbonic anhydrase inhibitors
- 3E. Second generation antihistaminics
- 3F. Fluoxetine
- 3G. Parenteral iron preparations
- 3H. Antitussives
- 3I. Propofol
- 3J. Spinal anesthesia
(7 marks×10 = 70 marks)



MANIPAL UNIVERSITY

M.Sc. MEDICAL (FINAL) PHARMACOLOGY DEGREE EXAMINATION – JULY 2014
PAPER III: SYSTEMIC PHARMACOLOGY, CHEMOTHERAPY, IMMUNOTHERAPY,
ENDOCRINES AND MISCELLANEOUS TOPICS

Saturday, July 12, 2014

Time: 14:00 – 17:00 Hrs.

Maximum Marks: 100

✍ **Answer ALL the questions.**

✍ **Long Essays:**

1. Illustrate the life cycle of malarial parasite in man and depict the site of action of drugs used in therapy. Describe the mechanism of action, kinetics, adverse effects and uses of chloroquine.

(15 marks)

2. Discuss the mechanism of action, uses and adverse effects of estrogen.

(15 marks)

3. **Write short notes on:**

3A. HPA axis suppression

3B. DPP-4 inhibitors

3C. Mechanism of action and uses of levofloxacin

3D. Leflunomide

3E. Mechanisms of bacterial resistance to antibiotics with examples

3F. Vitamin B₆

3G. Adverse effects of cytotoxic drugs and methods to ameliorate them

3H. Tocolytics

3I. Iron chelation

3J. Mechanism of action, kinetics and therapeutic indications of azithromycin

(7 marks × 10 = 70 marks)

