

Reg. No.

MANIPAL UNIVERSITY

M.Sc. MEDICAL (FINAL) PHARMACOLOGY DEGREE EXAMINATION – JULY 2012

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

Thursday, July 12, 2012

Time: 14:00 – 17:00 Hrs.

Maximum Marks: 100

✍ **Answer ALL questions.**

1. Explain various phases of biotransformation and discuss the factors influencing it.
(20 marks)
2. Discuss the neurohumoral transmission of sympathetic system and drugs affecting it.
(20 marks)
3. **Write briefly on:**
 - 3A. Animal models of analgesic screening
 - 3B. Student 't' test
 - 3C. Institutional Ethics Committee
 - 3D. How do you experimentally demonstrate competitive drug antagonism?
 - 3E. Atropine derivatives
 - 3F. Third generation beta blockers

(10×6 = 60 marks)



MANIPAL UNIVERSITY**M.Sc. MEDICAL (FINAL) PHARMACOLOGY DEGREE EXAMINATION – JULY 2012****PAPER II: SYSTEMIC PHARMACOLOGY, CNS, CVS, GIT, BLOOD, RENAL,
RESPIRATORY SYSTEMS AND AUTACOIDS**

Friday, July 13, 2012

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 diagram wherever necessary.**

1. Discuss the various drugs modulating GABAergic system. (20 marks)

2. Classify anticoagulants with examples. Explain the pharmacology of oral anticoagulants. (20 marks)

3. **Write briefly on:**

3A. Selective COX-2 inhibitors

3B. ACE inhibitors

3C. Bronchodilators used in asthma

3D. Prokinetics

3E. Uses of prostaglandins

3F. Opioid receptors

(10×6 = 60 marks)



MANIPAL UNIVERSITY**M.Sc. MEDICAL (FINAL) PHARMACOLOGY DEGREE EXAMINATION – JULY 2012
PAPER III: SYSTEMIC PHARMACOLOGY, CHEMOTHERAPY, IMMUNOTHERAPY,
ENDOCRINES AND MISCELLANEOUS TOPICS**

Saturday, July 14, 2012

Time: 14:00 – 17:00 Hrs.

Maximum Marks: 100

Answer ALL questions.

1. Classify fluoroquinolones. Explain the pharmacokinetic characteristics, mechanism of action, uses and adverse effects of fluoroquinolones.
(20 marks)
2. Classify drugs used in diabetes mellitus. Describe mechanism of action of oral antidiabetic agents and its status in treatment of diabetes mellitus.
(20 marks)
3. **Write briefly on:**
 - 3A. Amphotericin B
 - 3B. Indication for combination of antimicrobial therapy
 - 3C. Vitamin D
 - 3D. Primaquine
 - 3E. Selective estrogen receptor modulators
 - 3F. Immunosuppressant drugs

(10×6 = 60 marks)

