

MANIPAL UNIVERSITY**M.Sc. MEDICAL (FINAL) PHARMACOLOGY DEGREE EXAMINATION – JULY 2015****PAPER I: GENERAL PHARMACOLOGY, CLINICAL PHARMACOLOGY,
EXPERIMENTAL PHARMACOLOGY, SCREENING, ANS**

Tuesday, July 14, 2015

Time: 14:00 – 17:00 Hrs.

Maximum Marks: 100

✍ **Answer ALL the questions.**

✍ **Long Essay:**

1. Explain G-protein coupled receptor mediated drug action with examples. (15 marks)

2. Enumerate the indirectly acting parasympathomimetics. Explain how they act and discuss the effects of these drugs on various organ systems with its clinical application. (15 marks)

3. **Write short notes on:**

3A. Pharmacovigilance

3B. Any two models for studying antiinflammatory activity of a compound

3C. Physiological salt solutions

3D. Therapeutic index

3E. Acute toxicity study

3F. Selective α_1 adrenergic blockers

3G. Factors affecting oral bioavailability of drug

3H. Sources of drugs with examples

3I. Types of data and its presentation

3J. Third generation beta blockers

(7 marks \times 10 = 70 marks)



MANIPAL UNIVERSITY**M.Sc. MEDICAL (FINAL) PHARMACOLOGY DEGREE EXAMINATION – JULY 2015****PAPER II: SYSTEMIC PHARMACOLOGY: CNS, CVS, GIT, BLOOD, RENAL,
RESPIRATORY SYSTEMS AND AUTACOIDS**

Wednesday, July 15, 2015

Time: 14:00 – 17:00 Hrs.

Maximum Marks: 100

✍ **Answer ALL the questions.**

✍ **Long Essays:**

1. Discuss the drugs acting through Renin Angiotensin System.

(15 marks)

2. Classify antiepileptic drugs. Explain the mechanism of action, uses and adverse effects of sodium valproate.

(15 marks)

3. **Write short notes on:**

3A. Vasopressin analogues

3B. 5-HT₃ receptor antagonists

3C. Selective serotonin reuptake inhibitors

3D. Phosphodiesterase inhibitors in bronchial asthma

3E. Second generation antihistamines

3F. Parenteral iron preparations

3G. Antacids

3H. Alteplase

3I. Vasodilators in congestive cardiac failure

3J. Bulk laxatives

(7 marks × 10 = 70 marks)



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MANIPAL UNIVERSITY

M.Sc. MEDICAL (FINAL) PHARMACOLOGY DEGREE EXAMINATION – JULY 2015 PAPER III: SYSTEMIC PHARMACOLOGY, CHEMOTHERAPY, IMMUNOTHERAPY, ENDOCRINES AND MISCELLANEOUS TOPICS

Thursday, July 16, 2015

Time: 14:00 – 17:00 Hrs.

Maximum Marks: 100

✍ **Answer ALL the questions.**

✍ **Long Essays:**

1. Classify antitubercular drugs. Explain the pharmacology of first line drugs used in tuberculosis. (15 marks)

2. Classify insulin preparations based on onset and duration of action. Explain the adverse effects of insulin. Add a note on management of diabetic ketoacidosis. (15 marks)

3. **Write short notes on:**

3A. Chemoprophylaxis used in malaria

3B. Injectable contraceptives

3C. Mechanism of action and uses of methotrexate

3D. Vitamin D

3E. Azathioprine

3F. Explain different combination therapy used in HIV treatment

3G. Desferrioxamine

3H. Drugs for psoriasis

3I. Pharmacotherapy of thyrotoxic crisis

3J. Ceftriaxone

(7 marks × 10 = 70 marks)

