

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

Monday, February 03, 2014

Time: 14:00 – 17:00 Hrs.

Maximum Marks: 100

✍ **Answer ALL the questions.**

✍ **Write your answers with neatly drawn and correctly labeled diagram wherever necessary.**

1. Describe the various factors affecting drug action. Add a note on therapeutic drug monitoring.
2. Describe the various animal models for screening antiepileptic activity. Write a protocol for screening a plant extract for antiepileptic activity using a suitable animal model.

(20×2 = 40 marks)

3. **Write briefly on:**

- 3A. Confidence interval
- 3B. Randomized controlled clinical trial
- 3C. Use of beta blockers in congestive cardiac failure
- 3D. Depolarizing skeletal muscle relaxants
- 3E. Treatment of organophosphorus poisoning
- 3F. Transdermal drug delivery systems

(10×6 = 60 marks)



Reg. No.

MANIPAL UNIVERSITY

M.Sc. MEDICAL (FINAL) PHARMACOLOGY DEGREE EXAMINATION – FEBRUARY 2014

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

Tuesday, February 04, 2014

Time: 14:00 – 17:00 Hrs.

Maximum Marks: 100

Answer ALL questions.

1. Diagrammatically depict the Renin –Angiotensin Aldosterone system. Discuss the various drugs affecting this system.
2. Discuss the pathophysiology of parkinsonism. Give an account of drugs used to treat parkinsonism.

(20×2 = 40 marks)

3. Write briefly on:

- 3A. Atorvastatin
- 3B. Indirect thrombin inhibitors
- 3C. Ramelteon
- 3D. Uses of purgatives with preparation of choice
- 3E. Mood stabilizers
- 3F. Verapamil

(10×6 = 60 marks)



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

Wednesday, February 05, 2014

Time: 14:00 – 17:00 Hrs.

Maximum Marks: 100

✍ Answer ALL questions.

1. Discuss the various drugs used in treatment of HIV infection. Outline the treatment guidelines of HIV.
2. Discuss insulin preparations and explain the mechanism of action, uses and adverse effects of insulin. Add a note on insulin resistance.

(20×2 = 40 marks)

3. Write briefly on:

- 3A. Octreotide
- 3B. Antipseudomonal antibiotics
- 3C. Adverse effects of glucocorticoids
- 3D. Monoclonal antibodies in therapeutics
- 3E. Bacterial drug resistance
- 3F. Azithromycin

(10×6 = 60 marks)

