

Reg. No.

HEALTH SCIENCES LIBRARY

## MANIPAL UNIVERSITY

MD (PHARMACOLOGY) DEGREE EXAMINATION – OCTOBER 2009

SUBJECT: PAPER I: GENERAL PHARMACOLOGY, CLINICAL PHARMACOLOGY,  
BIOSTATISTICS AND SCREENING

Monday, October 05, 2009

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

1. Explain the pharmacokinetics parameters and their principles with clinical relevance.  
(20 marks)
2. Explain preclinical toxicity studies and its importance in drug development.  
(20 marks)
3. Write short notes on:
  - 3A. ANOVA.
  - 3B. Rat as experimental animal.
  - 3C. Drug addiction.
  - 3D. Pharmacodynamic drug interaction.
  - 3E. ADR monitoring.
  - 3F. Institutional human ethics committee (IAEC).

(10×6 = 60 marks)



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SUBJECT: PAPER II: AUTONOMIC NERVOUS SYSTEM, CARDIOVASCULAR  
SYSTEM, DIURETICS, RESPIRATORY SYSTEM

Tuesday, October 06, 2009

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

1. Discuss the various drugs used in angina. (20 marks)
2. Explain the therapeutic uses and complications of diuretic therapy. (20 marks)
3. Write briefly on:
  - 3A. Clinical uses of anti muscarinic drugs
  - 3B. Corticosteroids in asthma
  - 3C. Pharmacotherapy of wide angle glaucoma
  - 3D. Cardioselective  $\beta$  blockers
  - 3E. Phosphodiesterase inhibitors
  - 3F. Ramipril(10 $\times$ 6 = 60 marks)



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SUBJECT: PAPER III: CENTRAL NERVOUS SYSTEM, GASTRO INTESTINAL TRACT,  
BLOOD, AUTACOIDS, MISCELLANEOUS.

Wednesday, October 07, 2009

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

1. Discuss the recent advances in the treatment of epilepsy. Add a note on the management of status epilepticus.  
(20 marks)
  
2. Discuss various haemopoietic growth factors with their clinical significance.  
(20 marks)
  
3. Write on:
  - 3A. Glycoprotein II<sub>b</sub> / III<sub>a</sub> antagonist
  - 3B. Ziprasidone.
  - 3C. Verdenafil
  - 3D. Opioid deaddiction.
  - 3E. Na<sup>+</sup> - H<sup>+</sup> ATPase inhibitors
  - 3F. Treprostinil.

(10×6 = 60 marks)



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MD (PHARMACOLOGY) DEGREE EXAMINATION – OCTOBER 2009

SUBJECT: PAPER IV: CHEMOTHERAPY, HORMONES, VACCINES, VITAMINS

Thursday, October 08, 2009

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

1. Discuss the recent advances in the treatment of HIV infection.  
(20 marks)
2. Discuss in detail oral antidiabetic agents in therapeutics.  
(20 marks)
3. Write short notes on:
  - 3A. GnRH analogues.
  - 3B. Radioactive substances in therapeutics.
  - 3C. Interferons.
  - 3D. Microtubular disruptors in cancer chemotherapy.
  - 3E. Calcineurin inhibitors.
  - 3F. Treatment of hospital acquired pneumonia.  
(10×6 = 60 marks)

