

MANIPAL UNIVERSITY**MD (PHARMACOLOGY) DEGREE EXAMINATION – APRIL 2010****SUBJECT: PAPER I: GENERAL PHARMACOLOGY, CLINICAL PHARMACOLOGY,
BIOSTATISTICS AND SCREENING**

Monday, April 05, 2010

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- ✍ **Answer ALL the questions**
- ✍ **Write your answers that are brief, clear, relevant and legible.**
- ✍ **Illustrate your answers with neatly drawn and correctly labelled diagrams wherever appropriate.**

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1. Discuss the factors governing the route of administration of drugs with examples. Add a note on newer drug delivery systems.

(20 marks)

2. Discuss the various steps involved in the development of a new drug.

(20 marks)

✍ **Write briefly on:**

- 3A. Spectrophotometry.
- 3B. Ethics committee.
- 3C. Volume of distribution.
- 3D. Enzyme induction.
- 3E. Essential drug list.
- 3F. Pharmacogenetics.

(10×6 = 60 marks)



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MD (PHARMACOLOGY) DEGREE EXAMINATION – APRIL 2010

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

Tuesday, April 06, 2010

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- ✍ Answer ALL the questions.
- ✍ Write your answers that are brief, clear, relevant and legible.
- ✍ Illustrate your answers with neatly drawn and correctly labelled diagrams wherever appropriate.

✍ Essay questions:

1. Discuss the structure activity relationship of adrenergic agonists. (20 marks)
2. Discuss the role of angiotensin II in cardiovascular and renal disorders and explain how drugs can modulate its effects. (20 marks)

✍ Write briefly on:

- 3A. Newer cardioselective beta blockers.
- 3B. Therapeutic uses of magnesium.
- 3C. Plasma expanders.
- 3D. Dosage titration of anticholinesterase agents in the management of myasthenia gravis.
- 3E. Pharmacological basis of treatment of cough.
- 3F. Uses of diuretics in non-edematous disorders.

(10×6 = 60 marks)



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MD (PHARMACOLOGY) DEGREE EXAMINATION – APRIL 2010

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

Wednesday, April 07, 2010

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- ✍ Answer ALL the questions
- ✍ Write your answers that are brief, clear, relevant and legible.
- ✍ Illustrate your answers with neatly drawn and correctly labelled diagrams wherever appropriate.

✍ Essay questions:

1. Discuss the drugs affecting GABA ergic transmission.

(20 marks)

2. Discuss the pharmacotherapy of vomiting.

(20 marks)

✍ Write briefly on:

- 3A. Clinical uses of laxatives
- 3B. Drugs used in chronic gout
- 3C. Heparin
- 3D. Atypical antipsychotics
- 3E. Drug therapy of migraine
- 3F. Cyclosporine

(10×6 = 60 marks)

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MD (PHARMACOLOGY) DEGREE EXAMINATION – APRIL 2010

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

Thursday, April 08, 2010

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- ✍ Answer ALL the questions.
- ✍ Write your answers that are brief, clear, relevant and legible.
- ✍ Illustrate your answers with neatly drawn and correctly labelled diagrams wherever appropriate.

✍ Essay questions:

1. Enlist the drugs used in chemotherapy of malaria with the help of a diagram depicting the life cycle of malarial parasite. Explain the therapeutic options available in the management of chloroquine resistant Plasmodium falciparum malaria.

(20 marks)

2. Enumerates glucocorticoids. Explain their therapeutic uses and adverse effects.

(20 marks)

✍ Write briefly on:

- 3A. Linezolid.
- 3B. Albendazole.
- 3C. Topical antifungal drugs.
- 3D. Management of thyroid storm.
- 3E. Selective estrogen receptor modulators.
- 3F. Aromatase inhibitors.

(10×6 = 60 marks)

