

MANIPAL UNIVERSITY**MD (PHARMACOLOGY) DEGREE EXAMINATION – APRIL 2011****SUBJECT: PAPER I: GENERAL PHARMACOLOGY, CLINICAL PHARMACOLOGY,
BIOSTATISTICS AND SCREENING**

Monday, April 04, 2011

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 various signalling mechanisms involved in drug action. (20 marks)

2. Discuss the methods used to screen a compound for its antidiabetic activity. (20 marks)

✍ **Write briefly on:**

3A. Rational prescribing of drugs

3B. P glycoprotein

3C. Informed consent

3D. Pharmacoeconomics

3E. Therapeutic drug monitoring

3F. Chi square test

(10×6 = 60 marks)



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MD (PHARMACOLOGY) DEGREE EXAMINATION – APRIL 2011

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

Tuesday, April 05, 2011

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 physiology of neuromuscular transmission and drugs affecting it.

(20 marks)

2. Discuss the current status of β blockers in therapy.

(20 marks)

✍ Write briefly on:

3A. Vasopressin analogues

3B. Atropine substitutes in ophthalmic practice

3C. HMG CoA reductase inhibitors

3D. Selective β_2 agonists

3E. Fatty acid oxidation inhibitors

3F. Drugs used in hypertensive emergencies

(10×6 = 60 marks)



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MANIPAL UNIVERSITY

MD (PHARMACOLOGY) DEGREE EXAMINATION – APRIL 2011

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

Wednesday, April 06, 2011

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 pharmacotherapy of sleep disorders.

(20 marks)

2. Explain the physiology of gastric acid secretion and drugs affecting it.

(20 marks)

✍ Write briefly on:

3A. Direct thrombin inhibitors

3B. Drugs acting on CTZ

3C. Atypical antidepressants

3D. Complications of general anaesthesia and their prevention /treatment

3E. Prostaglandin analogues

3F. Iron chelators

(10×6 = 60 marks)



MANIPAL UNIVERSITY

MD (PHARMACOLOGY) DEGREE EXAMINATION – APRIL 2011

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

Thursday, April 07, 2011

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 advantages of recently introduced drugs in cancer chemotherapy. (20 marks)
2. Discuss the anti-inflammatory uses of steroids and their limitations. (20 marks)

✍ Write briefly on:

- 3A. Bisphosphonates
- 3B. Streptogramins
- 3C. The merits of dipeptidyl peptidase-IV inhibitors in type – 2 diabetes mellitus
- 3D. The therapeutic importance of estrogen receptor agonist-antagonists
- 3E. The limitations of various viral vaccines
- 3F. The recent developments of drugs treatment of malaria

(10×6 = 60 marks)

