

MANIPAL UNIVERSITY

M.Sc. MEDICAL (FINAL) PHARMACOLOGY DEGREE EXAMINATION – FEBRUARY 2009

PAPER I: GENERAL PHARMACOLOGY, CLINICAL PHARMACOLOGY, EXPERIMENTAL
PHARMACOLOGY, SCREENING, ANS

Monday, February 02, 2009

Time available: 14:00 – 17:00 Hrs.

Maximum 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.**

1. Explain various methods of drug transport across the biological barriers and with the help of suitable examples discuss factors affecting them.

(20 marks)

2. Classify various atropine substitutes and discuss the Pharmacological actions of atropine.

(20 marks)

3. Write briefly on:

3A. Animal models of analgesic screening.

3B. Components of informed consent.

3C. Uses and adverse effects of α blockers.

3D. Students 't' test.

3E. Impact of genetic variation on drug response.

3F. Neostigmine.

(10×6 = 60 marks)

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

Tuesday, February 03, 2009

Time available: 14:00 – 17:00 Hrs.

Maximum Marks: 100

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

1. Enumerate drugs used in the treatment of glaucoma. Discuss the pharmacology of any two drugs acting by different mechanisms.

(20 marks)

2. Classify opioid analgesics. Explain the pharmacological actions, adverse effects and contraindications of morphine.

(20 marks)

3. Write briefly on:

3A. Prokinetic agents.

3B. Preparations of iron.

3C. Spironolactone.

3D. Antitussives.

3E. Adverse effects and indications of Digoxin.

3F. Drugs used in an acute attack of migraine.

(10×6 = 60 marks)

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

Wednesday, February 04, 2009

Time available: 14:00 – 17:00 Hrs.

Maximum Marks: 100

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

1. Enlist first line drugs used in tuberculosis. Explain their mechanism of action and adverse effects. Give reasons for use of multi drug therapy in tuberculosis.

(20 marks)

2. Discuss the pharmacology of drugs regulating blood calcium levels.

(20 marks)

3. Write briefly on:

3A. Azoles

3B. Cyclophosphamide

3C. Newer macrolides

3D. Praziquantel

3E. Vitamin K

3F. Oral (hormonal) contraceptives

(10×6 = 60 marks)