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MANIPAL UNIVERSITY

M.Sc. MEDICAL (FINAL) PHARMACOLOGY DEGREE EXAMINATION – FEBRUARY 2010

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

Monday, February 01, 2010

Time: 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 necessary.**

1. Describe the phases of drug metabolism with suitable examples.

(20 marks)

2. Discuss the screening methods for analgesic activity of a new compound.

(20 marks)

3. **Write briefly on:**

3A. Receptor operated ion channels.

3B. Confidence interval.

3C. Therapeutic drug monitoring.

3D. Principles of bioassay.

3E. Phase II clinical trials.

3F. Atropine.

(10×6 = 60 marks)

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MANIPAL UNIVERSITY**M.Sc. MEDICAL (FINAL) PHARMACOLOGY DEGREE EXAMINATION – FEBRUARY 2010****PAPER II: SYSTEMIC PHARMACOLOGY, CNS, CVS, GIT, BLOOD, RENAL,
RESPIRATORY SYSTEMS AND AUTACOIDS**

Tuesday, February 02, 2010

Time: 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 necessary.**

1. Explain the pharmacological actions, toxicities and therapeutic uses of digoxin. (20 marks)
2. Discuss the mechanism of action, pharmacokinetics, adverse effects and clinical uses of benzodiazepines. (20 marks)
3. **Write briefly on:**
 - 3A. Uses and adverse effects of H₁ blockers.
 - 3B. Lactulose.
 - 3C. Hydrochlorothiazide.
 - 3D. Folic acid.
 - 3E. Inhalational antiasthmatic drugs.
 - 3F. Metoclopramide.

(10×6 = 60 marks)

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MANIPAL UNIVERSITY**M.Sc. MEDICAL (FINAL) PHARMACOLOGY DEGREE EXAMINATION – FEBRUARY 2010**
PAPER III: SYSTEMIC PHARMACOLOGY, CHEMOTHERAPY, IMMUNOTHERAPY,
ENDOCRINES AND MISCELLANEOUS TOPICS

Wednesday, February 03, 2010

Time: 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 necessary.**

1. Diagrammatically depict the steps involved in the biosynthesis of thyroid hormone and discuss the antithyroids depending on their site of action. Add a note on their adverse effects.

(20 marks)

2. Enumerate various fluoroquinolones. Explain the mechanism of action, uses and adverse effects of them.

(20 marks)

3. **Write briefly on:**

3A. Antifungal antibiotics

3B. Insulin secretagogues

3C. Newer macrolides

3D. Rationale for combining drugs in tuberculosis

3E. Adverse effects of glucocorticoids

3F. Anti amoebic drugs

(10×6 = 60 marks)

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