

MANIPAL ACADEMY OF HIGHER EDUCATION
(Deemed University)

M.Sc. (FINAL) PHARMACOLOGY DEGREE EXAMINATION – JULY 2003

PAPER I: GENERAL PHARMACOLOGY, CLINICAL PHARMACOLOGY, EXPERIMENTAL PHARMACOLOGY, BIOLOGICAL STANDARDIZATION AND BIostatISTICS

Tuesday, July 01, 2003

Time available: 3 Hours

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.
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1. Discuss drug-drug interactions. (20 marks)

2. Discuss the screening methods for antidiabetic agents. (20 marks)

3. Discuss the role of second messengers in drug action. (20 marks)

4. Write briefly on: (10×4 = 40 marks)
 - 4A. Non parametric analysis
 - 4B. Newer drug delivery systems
 - 4C. Post marketing surveillance
 - 4D. Radio immunoassay

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**PAPER II: SYSTEMIC PHARMACOLOGY: ANS, CNS, CVS, GIT, HEMOPOIETIC,
RENAL AND RESPIRATORY SYSTEMS, AUTACOIDS**

Wednesday, July 02, 2003

Time available: 3 Hours

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.
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1. Discuss pharmacotherapy of essential hypertension.
(20 marks)

2. Discuss the physiology of adrenergic transmission, drugs modifying it and their implications.
(20 marks)

3. Classify antipsychotics. Describe the mechanism of action, uses and adverse effects of anti-
psychotics.
(20 marks)

4. Write briefly on:
(10x4 = 40 marks)
 - 4A. Lithium
 - 4B. Erythropoietin
 - 4C. Prokinetic agents
 - 4D. 2nd generation antihistaminics

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

Thursday, July 03, 2003

Time available: 3 Hours

Maximum Marks: 100

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- **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. Enumerate the glucocorticoids. Explain two important pharmacological actions used clinically and describe the adverse effects.

(20 marks)

2. Enlist the aminoglycoside antibiotics. Explain the mechanisms of action, uses and common features of this group of antibiotics.

(20 marks)

3. Discuss the pharmacology of drugs used in leprosy and add a note on management of lepra reaction.

(20 marks)

4. Write briefly on:

(10 x 4 = 40 marks)

4A. Oral contraceptive pills

4B. Broad spectrum anthelmintics

4C. Immunosuppressants

4D. Antimetabolites.

