



FACULTY OF MEDICINE, UNIVERSITY OF RUHUNA, GALLE
THIRD EXAMINATION FOR MEDICAL DEGREES PART II -
DECEMBER 2007

PHARMACOLOGY - PAPER I

Wednesday 5th December 2007

9.00 a.m. - 11.00 a.m.
(2 hours)

Answer all FOUR Questions

Answer EACH PART in a SEPARATE BOOK

PART A

1. Describe the drug treatment of the following conditions, giving the reasons for the use of the drugs you mention. Indicate the dose and route of administration of the drugs.
 - 1.1. Acute severe attack of bronchial asthma in an adult. (35 marks)
 - 1.2. Diabetic keto-acidotic coma. (35 marks)
 - 1.3. Acute anaphylactic shock following an injection of Penicillin. (30 marks)

2.
 - 2.1. List the principles of treatment of tonic-clonic epilepsy in an adult. (25 marks)
 - 2.2. Explain the following terms, giving examples of drugs to illustrate your answer.
 - 2.2.1. Therapeutic index. (25 marks)
 - 2.2.2. Bioavailability. (25 marks)
 - 2.3. List the adverse effects of long term therapy with corticosteroids and indicate the precautions you would take to prevent or minimise these effects. (25 marks)

PART B

3.
 - 3.1. Describe the mechanism of action and clinical uses of morphine. (20 marks)
 - 3.2. Briefly describe the clinical uses, common adverse effects and contraindications of the following drugs.
 - 3.2.1. Propranolol (20 marks)
 - 3.2.2. Frusemide (20 marks)
 - 3.2.3. Gentamicin (20 marks)
 - 3.2.4. Phenytoin sodium (20 marks)

4.
 - 4.1. Name three groups of antihypertensive drugs giving one example of a drug for each group. (20 marks)
 - 4.2. Briefly explain the mode of action of all three groups of drugs you mentioned in section 4.1 giving the important adverse effects of each group. (80 marks)