



**FACULTY OF MEDICINE, UNIVERSITY OF RUHUNA, GALLE**  
Third Examination for Medical Degrees (Part II) – February 2004  
**PHARMACOLOGY - PAPER I**

Monday 2nd February, 2004

2 hours

Answer **ALL FOUR** Questions.

Answer **EACH PART** in a **SEPARATE BOOK**.

**Part A**

1. 1.1. Describe briefly the different mechanisms by which drugs produce their actions in the body. Illustrate your answer with examples of drugs. (50 marks)
- 1.2. Describe the drug treatment of uncomplicated pulmonary tuberculosis in an adult, giving reasons for your choice of drugs (doses not required). State the precautions you would take regarding the possible adverse effects of the drugs you mention. (50 marks)
2. 2.1. Indicate suitable **drugs** for the relief of pain in each of the following conditions
  - 2.1.1. acute myocardial infarction (05 marks)
  - 2.2.2. acute attack of migraine (05 marks)
- 2.2. **Enumerate** the adverse effects of each the drugs you mention. (40 marks)
- 2.3. Mention **one** drug belonging to each of the following classes. (15 marks)
  - 2.3.1. Hypnotics/sedatives
  - 2.3.2. Neuroleptics
  - 2.3.3. Antidepressants
  - 2.3.4. Anti-parkinsonian drugs
  - 2.3.5. Inhalational anaesthetics
- 2.4. Describe the general principles of management, including drug therapy (doses not required) of major motor (grand mal) epilepsy. (35 marks)

**Part B**

3. Discuss the rationale for the
  - 3.1. Use of angiotensin converting enzyme inhibitors in diabetic patients with hypertension. (40 marks)
  - 3.2. Use of metformin in type II diabetes with body mass index over 0.25. (30 marks)
  - 3.3. Use of tolbutamide in elderly diabetic patients. (30 marks)

**Part C**

4. Giving reasons for the choice of drugs, briefly describe the management of
  - 4.1. acute bronchial asthma. (35 marks)
  - 4.2. angina pectoris. (35 marks)
  - 4.3. peptic ulcers. (30 marks)