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UNIVERSITY OF RUHUNA- FACULTY OF MEDICINE
THIRD EXAMINATION FOR MEDICAL DEGREES PART II- August 2005

PHARMACOLOGY PAPER I

2 HOURS

24th August, 2005

Answer all **FOUR** questions

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

Part A

1. Write notes on

1.1 Therapeutic index (30 marks)

1.2. Bioavailability (30 marks)

1.3 Competitive antagonists (40 marks)

Illustrate your answer with examples of drugs used clinically.

Part B

2. Describe the pharmacological basis for the use of

2.1. Carbimazole in thyrotoxicosis (35 marks)

2.2. Digoxin in atrial fibrillation (35 marks)

2.3. Acarbose in type 2 diabetes mellitus (30 marks)

Part C

3. 3.1 Describe the mechanism of action and clinical uses of aspirin (20 marks)

3.2 Briefly describe the clinical uses, common adverse effects, precautions 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. A 56 year old male admitted to the intensive care unit with severe retrosternal chest pain and breathlessness. On examination he had fine basal crepitations in both lungs and blood pressure was 140/90 mmHg. ECG showed both supraventricular tachycardia and acute ischaemic changes.

4.1 Describe the immediate management of this patient giving reasons for your choice of drugs. (80 marks)

4.2 Discuss the long term management of this patient. (20 marks)