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UNIVERSITY OF RUHUNA - FACULTY OF MEDICINE
THIRD EXAMINATION FOR MEDICAL DEGREES PART II- December 2010
PHARMACOLOGY PAPER I

21st December, 2010

2 HOURS

Answer all FOUR questions

Answer EACH PART in a SEPARATE BOOK

Part A

1

1.1 Name two clinical indications of the following drugs (5 marks)

- 1.1.1 Lignocaine (5 marks)
- 1.1.2 Gentamicin (5 marks)
- 1.1.3 Captopril (5 marks) *
- 1.1.4 Prednisolone

1.2. List two side effects for each drug mentioned in 1.1 (10 marks)

1.3 Briefly indicate the mode of action of TWO drugs (40 marks)

1.4 Indicate two precautions you would take in prescribing drugs mentioned in 1.1 (30 marks)

2. Describe the pharmacological basis for the use of (35 marks)

2.1. aspirin in stable angina. (35 marks)

2.2. digoxin in atrial fibrillation. (30 marks) *

2.3. pioglitazone in type 2 diabetes mellitus.

Part B

3.

3.1. About propranolol, (10 marks)

3.1.1. list five clinical indications. (10 marks)

3.1.2. indicate four contraindications. (10 marks)

3.1.3. list common side effects.

3.2. Briefly indicate the rationale of using morphine in pulmonary oedema, secondary to left ventricular failure. (25 marks)

3.3. Briefly describe clinical indications of heparin including the mode of action. (25 marks)

3.4. Indicate the pharmacological basis of using spironolactone in the management of ascitis in cirrhosis. (20 marks)

allergy
Autoimmune ITP
Hemolytic
chronic hepatitis
B
BA - acute
inflammatory
chronic hyperplasia
Relative contraindication
pregnancy
Viral live vaccine

Part C

4. A 22 year old man was admitted with shortness of breath for one day duration. History reveals recent onset of weight loss. His investigation showed random blood sugar of 553 mg/dL, urine positive for ketone bodies and severe metabolic acidosis.

4.1. Discuss the pharmacological management during the acute stage, indicating the reasons for selecting each drug you prescribe for this patient.

(70 marks)

4.2. Indicate different types of insulin regimes which can be used in this patient at the time of discharge.

(30 marks)