

UNIVERSITY OF JAFFNA, SRI LANKA
SECOND EXAMINATION FOR MEDICAL DEGREES PART II (2ND) –JUNE 2010
Pharmacology Paper II

Date: 30.06.2010.

Time: 02 hours

ANSWER ALL THE FOUR QUESTIONS

1. Describe the following with examples:
 - 1.1. Hepatic first-pass metabolism (30 Marks)
 - 1.2. Type A adverse drug reaction (30 Marks)
 - 1.3. Mechanisms of drug action (40 Marks)

2. Explain the pharmacological basis of the following:
 - 2.1. Combination of levodopa with decarboxylase inhibitors. (25 Marks)
 - 2.2. Use of single daily dose of gentamycin. (25 Marks)
 - 2.3. Propranolol in the management of thyrotoxicosis. (25 Marks)
 - 2.4. Lactulose in the management of hepatic encephalopathy. (25 Marks)

3.
 - 3.1. Classify the drugs that are used in the management of angina (20 Marks)
 - 3.2. Briefly describe the mechanism of action of each group mentioned in 3.1. (50 Marks)
 - 3.3. Mention the drug of choice for an acute attack of angina pectoris. (10 Marks)
 - 3.4. What advice would you give when prescribing the drug mentioned in 3.3.? (20 Marks)

4. A 50 year old farmer was admitted to the emergency unit with the complaint of breathlessness. He was a known asthmatic on regular inhaled β_2 agonist and inhaled low dose steroid. He was apparently well till he developed an attack of wheeze after cleaning his house. Wheeze did not respond to his regular medications and he was brought to the hospital. At the time of admission patient was dyspnoeic and unable to complete a sentence in single breath. On examination his respiratory rate was 30 per minute, heart rate was 100 per minute and on auscultation both inspiratory and expiratory rhonchi were heard. He was diagnosed as acute severe asthma.
 - 4.1. Name the drugs and their appropriate routes of administration that you would use to treat him in the emergency unit. (30 Marks)
 - 4.2. Explain the rationale for the drug preparations mentioned in 4.1. (30 Marks)
 - 4.3. What drugs would you prescribe for this patient on discharge? Give reasons. (20 Marks)
 - 4.4. What advice would you give when prescribing the drugs mentioned in 4.3.? (20 Marks)