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UNIVERSITY OF JAFFNA, SRI LANKA
SECOND EXAMINATION FOR MEDICAL DEGREES PART II (2nd)
December 2013
PHARMACOLOGY - Paper II

Date: 05.12.2013 **Time: 02 hours**

ANSWER ALL THE **FOUR** QUESTIONS.

1. Explain the pharmacokinetic basis for
   - 1.1. more frequent monitoring of INR in patients on warfarin during atituberculous therapy. (25 marks)
   - 1.2. not using macrolides in the treatment of bacterial meningitis. (25 marks)
   - 1.3. giving omeprazole as enteric coated formulation. (25 marks)
   - 1.4. reducing the dose of propranolol in liver disease. (25 marks)

2.
   - 2.1. Describe the mechanism of action of NSAIDs. (20 marks)
   - 2.2. Give one example for
     - 2.2.1. non-selective COX inhibitor. (10 marks)
     - 2.2.2. COX 2 selective inhibitors. (10 marks)
   - 2.3. Describe the adverse effects of NSAIDs. (30 marks)
   - 2.4. Explain the advantages and disadvantages of COX 2 selective inhibitors when compared to non-selective COX inhibitors. (20 marks)

3. Write an account on
   - 3.1. therapeutic applications of opioids. (30 marks)
   - 3.2. inhaled steroids. (30 marks)
   - 3.3. organophosphate poisoning. (40 marks)

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4. Mr. S. Subramanian, a 50 year old farmer was admitted to the medical ward with the complaint of retrosternal chest pain which was radiating to left upper arm. The pain developed when he was chopping firewood, lasted for about 15 minutes and was relieved by rest. He had three similar episodes in the last 6 months which also developed during vigorous physical activities and lasted for about 10 minutes and was relieved by rest. ECG showed ST depression and T inversion and his total cholesterol and LDL levels were elevated. He was treated for ischaemic heart disease.
   - 4.1. List the drugs that you would prescribe for this patient. (20 marks)
   - 4.2. Explain the rationale for prescribing the medicines mentioned in 4.1. (30 marks)
   - 4.3. Write a model prescription on discharge for this patient. (20 marks)
   - 4.4. Write the advice that you would give to this patient when prescribing the drugs mentioned in 4.1. (30 marks)

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