

Part B

3. A 17-year-old school girl with a history of recurrent attacks of wheezing was admitted to a hospital with features of acute severe asthma.

3.1. Briefly describe the emergency management of this patient including the names, routes of administration and doses of medications. (60 marks)

3.2. List two medications useful in the long term management of asthma in this patient. (20 marks)

3.3. List adverse effects of the medications you mentioned in 3.2 and mention how you would advise the patient to minimize them. (20 marks)

Part C

4. Describe the pharmacological basis for the use of

4.1 ^① tolbutamide in type 2 ^② diabetes mellitus. (25 marks)

4.2 N-acetylcysteine in paracetamol poisoning. (25 marks)

4.3 cimetidine in peptic ulcer disease. (25 marks)

4.4 metoclopramide in drug induced vomiting. D_2 -antagonist
↑ Ach (25 marks)

5. A 64 year-old male was admitted to coronary care unit with severe retro-sternal chest pain of two hours duration. He had an ischaemic stroke two years ago. On examination his blood pressure was 150/92 mmHg and he had fine basal crepitation in both lungs. His ECG showed ST elevation in leads V1 to V6.

5.1. List four medications that are indicated for this patient during acute setting, explaining the reasons for choosing them. (40 marks)

5.2. Indicate the mechanism of action, administration and two adverse effects of each of the four drugs you mentioned in 5.1 (40 marks)

5.3. Briefly describe the mode of action of two antianginal drugs. (20 marks)