

The Sample Examination Paper is for Reference ONLY

Pharmacy and Poisons Board of Hong Kong

Sample Examination Paper (3 hours)

Pharmacology

READ THESE INSTRUCTIONS CAREFULLY

DO NOT TURN THIS PAGE OVER UNTIL YOU ARE TOLD TO DO SO

FAILURE TO COMPLY WITH THE INSTRUCTIONS MAY RESULT IN DEDUCTION IN MARKS OR DISQUALIFICATION

1. *Write your Candidate Number clearly on each answer sheet. Do not write your name on any sheet.*
2. *USE A FRESH SHEET FOR **EACH** QUESTION. THE ANSWER TO EACH QUESTION WILL BE COLLECTED SEPARATELY AT THE END OF EXAMINATION.*
3. *Read the questions very carefully. Do not waste time writing down information that is not asked for. No marks will be given for irrelevant answers.*
4. *Answer **ALL** questions.*
5. *Do not take any question papers or writing papers, whether used or unused, out of the examination room.*

This paper consists of this page and **TWO** other printed pages.

The Sample Examination Paper is for Reference ONLY

Answer ALL questions. Each question carries 20 marks.

1. Calcium channel blockers (CCBs) are widely used in the treatment of hypertension and angina pectoris.
 - (a) Give a brief description of their mechanism of action. (5 marks)
 - (b) Are there any differences among the CCBs? (5 marks)
 - (c) What are the common side effects and contraindications for the use of CCBs? (5 marks)
 - (d) With which drugs do CCBs interact and by what mechanism? (5 marks)

2. A 42-year-old man with asthma presented with shortness of breath and wheeze for 2 days.
 - (a) Discuss, with examples, the ways in which inhaled corticosteroids and inhaled β_2 agonists can improve his asthma control. (8 marks)
 - (b) What are the side effects of these drugs? (6 marks)
 - (c) What advice would you give to a patient who is receiving these drugs? (6 marks)

3. Patients with liver disease can have altered pharmacokinetics and pharmacodynamics with various drugs.
 - (a) Discuss the possible effects of liver disease on drug elimination. (4 marks)
 - (b) Give three examples of drugs that should be used with greater caution in chronic liver disease and describe the adverse effects they may produce. (12 marks)
 - (c) Give two examples of drugs that can cause acute liver damage and discuss the mechanism involved. (4 marks)

4. Describe the toxic effects and the general and specific management of the following when ingested in overdose:
- (a) Theophylline (5 marks)
 - (b) Dextropropoxyphene (5 marks)
 - (c) Hydroxychloroquine (5 marks)
 - (d) Hyoscine butylbromide (5 marks)
5. Give a brief description of the mechanism of action, pharmacological properties, clinical applications and adverse effects of low-molecular-weight heparins (LMWHs). What measures can be used to minimize these adverse effects? (20 marks)

END OF PAPER