

14 SEP 2020 0132

EXAMINATION DIVISION

THE OPEN UNIVERSITY OF SRI LANKA
FACULTY OF HEALTH SCIENCES
DEPARTMENT OF PHARMACY
ACADEMIC YEAR 2019/2020 – SEMESTER I



BACHELOR OF PHARMACY HONOURS
FMU4303- PHARMACOLOGY I - LEVEL 4
FINAL EXAMINATION
DURATION: THREE HOURS

DATE: 14TH SEPTEMBER 2020

TIME: 9.30 AM- 12.30 PM

Part – B (80 Marks- each 50 marks and total will be calculated to 80%)

1.
 - 1.1 List four (04) drug groups indicated in the treatment of chronic heart failure giving an example for each group. (20 marks)
 - 1.2 Select the drug group which is used in the emergency management of acute heart failure in 1.1. (10 marks)
 - 1.3 Write the pharmacological basis of choosing the drug group stated in 1.2 in the management of acute heart failure. (15 marks)
 - 1.4 Write two (02) adverse effects of the drug group stated in 1.2. (05 marks)
2.
 - 2.1 Define “first pass metabolism” (05marks)
 - 2.2 Describe the clinical importance of first pass metabolism with examples (25 marks)
 - 2.3 Draw the plasma concentration vs time plot for an oral drug and show the therapeutic window in the same graph. (10 marks)
 - 2.4 “Wafarin is a narrow therapeutic drug” briefly explain this statement. (10 marks)
3.
 - 3.1 Define the term “Hemostasis”. (05 marks)
 - 3.2 Briefly explain the mechanism of action for the following drugs.
 - I. Heparin (10 marks)
 - II. Warfarin (10 marks)
 - III. Aspirin (10 marks)
 - 3.3 Write the most important side effect of warfarin and two (02) important advices you would give when dispensing warfarin. (15 marks)

4.

4.1 Define hypertension.

(10 marks)

4.2 Briefly explain the mechanism of action of the following drug classes with regard to treatment of hypertension.

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| I. | Diuretics | (10 marks) |
| II. | Calcium channel blockers | (10 marks) |
| III. | Angiotensin Converting Enzyme (ACE) Inhibitors | (10 marks) |
| IV. | Beta blockers | (10 marks) |