BACHELOR OF PHARMACY HONOURS
FMU4303 PHARMACOLOGY I – LEVEL 4
FINAL EXAMINATION
DURATION: THREE (03) HOURS

DATE: 09TH MAY 2025 **TIME: 09.30 A.M. – 12.30 P.M.**

Part B – 04 Structured Essay Questions (60 Marks)

01.

1.1 Define the following terms.

a. Pharmacokinetics (02 marks)
b. Bioavailability (02 marks)

1.2 List three (03) factors affecting the oral bioavailability of a drug (03 marks)

1.3 Briefly explain

a. Volume of distribution (04 marks)
b. Drug metabolism. (04 marks)

02. Regarding Calcium Channel Blockers (CCB)

2.1 Classify the Calcium Channel Blockers (02 marks)

2.2 State one (01) example for each category you mentioned in 2.1. (02 marks)

2.3 State a side effect for each drug category you mentioned in 2.1. (02 marks)

2.4 Briefly explain the mechanism of action of CCBs (09 marks)

03.

3.1 List two (02) examples of cardio-selective beta blockers. (02 marks)

3.2 List three (03) common side effects/ adverse effects of beta blockers. (03 marks)

3.3 Briefly explain the pharmacological basis of the following statements.

a. Non-selective beta-blockers are contraindicated in patients with asthma. (05 marks)

b. Adrenaline is the drug of choice for anaphylactic shock (05 marks)

04.

4.1 Briefly explain the pharmacological basis for the use of glyceryl trinitrate in angina. (08 marks)

4.2 List two (02) examples of long-acting nitrates (02 marks)

4.3 List five (05) side effects/adverse effects of nitrates. (05 marks)