FMU3401- PHARMACOGNOSY I - LEVEL 3
FINAL EXAMINATION
DURATION: THREE (03) HOURS

DATE: 14TH SEPTEMBER 2023 **TIME: 9.30 A.M.- 12.30 P.M.**

Part B - Short Answer Questions (SAQs) - 20 Marks

1.

1.1. State one (01) active ingredient originated from each of the following crude drugs.

(05 marks)

I. Cascara - .....

II. Aloe - .....

III. Senna -.....

IV. Frangula -.....

V. Cochineal -.....

1.2. List five (05) pharmaceutical/therapeutic uses of flavonoid glycosides. (05 marks)

I. .....

II. .....

III. .....

IV. .....

V. .....

2.

2.1. Define "plant growth regulators". (03 marks)

.....

.....

.....

2.2. List three (03) different categories of alkaloids based on their chemical structure.

(03 marks)

I. .....

II. .....

III. .....

2.3. List four (04) medicinal and biological properties of tannins. (04 marks)

I. .....

II

Index No.....

Part C – Structured Essay Questions (SEQs) - 60 Marks

Answer all questions.

1.

1.1 Draw the general structure of cardiac glycoside. (03 marks)

1.2 Briefly describe the structure-activity relationship of cardiac glycosides. (08 marks)

1.3 State two (02) pharmaceutical uses of cardiac glycosides, giving one (01) example for each. (04 marks)

2.

2.1 What are alkaloids? (03 marks)

2.2 Write short notes on biological sources, constituents, pharmacological action, and pharmaceutical uses of two (02) tropane alkaloids. (12 marks)

3.

3.1 List three (03) screening tests for carbohydrates. (03 marks)

3.2 Name two (02) examples for algal gelling agents. (02 marks)

3.3 Briefly explain the biological sources, chemical nature, and medicinal importance of gums and mucilages of plants, giving two (02) examples. (10 marks)

4.

4.1 List three (03) examples for monoterpenes. (03 marks)

4.2 Write short notes on the following diterpenoids. (12 marks)

I. Gingko

II. Taxol