



GWANDA STATE UNIVERSITY
FACULTY OF NATURAL RESOURCES MANAGEMENT AND AGRICULTURE
DEPARTMENT OF HORTICULTURE AND CROP PRODUCTION
BACHELOR OF SCIENCE HONOURS DEGREE IN CROP SCIENCE
LCS 4210 PRINCIPLES OF HORTICULTURE
SECOND SEMESTER EXAMINATION
JUNE 2025

LCS 4210 Principles of Horticulture

Time Allowed: 3 hours

Total Marks: 100

Special Requirements: None

Examiner's Name: Dr. P. Zanamwe

INSTRUCTIONS

1. Answer **all** questions in Section A
2. Answer **TWO (2)** questions in Section B

MARK ALLOCATION

QUESTION	MARKS
SECTION A	60
SECTION B	40
TOTAL ATTAINABLE MARKS	100

SECTION A: ANSWER ALL QUESTIONS IN SECTION A

QUESTION ONE

- a. Discuss the following branches of horticulture
 - i. Pomology (5 Marks)
 - ii. Olericulture (5 Marks)
 - iii. Ornamental (6 Marks)
 - iv. Landscape architecture (4 Marks)

QUESTION TWO

- a. Give two examples of important horticultural plants that belong to the following plant families.
 - i. Solanaceae (2 Marks)
 - ii. Brassicaceae (2 Marks)
 - iii. Poaceae (2 Marks)
 - iv. Fabaceae (2 Marks)
 - v. Curcubitaceae (2 Marks)
- b. Distinguish between warm-season and cool-season vegetable crops and give two specific examples for each category. (6 Marks)
- c. Explain why scientific nomenclature is better compared to operational naming systems. (4 Marks)

QUESTION THREE

- a. State any two (2) reasons for propagating plants (2 Marks)
- b. Discuss any four (4) advantages and two (2) disadvantages of direct seeding (12 Marks)
- c. Explain three (3) special uses of grafting (6 Marks)

SECTION B: ANSWER TWO QUESTIONS IN SECTION B

QUESTION FOUR

Discuss photoperiodism and how it is used in flower production (20 Marks)

QUESTION FIVE

State and discuss five (5) advantages and five (5) disadvantages of vegetative/asexual propagation of horticultural plants. (20 Marks)

QUESTION SIX

Explain, stating the advantages of the following vegetable markets

- a) Farmer market (4 Marks)
- b) Processors (4 Marks)
- c) Retailers (4 Marks)
- d. Institutional (4 Marks)
- e. Pick your own (4 Marks)

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