



GWANDA STATE UNIVERSITY
FACULTY OF LIFE SCIENCES
DEPARTMENT OF CROP SCIENCE
BACHELOR OF SCIENCE HONOURS DEGREE IN CROP SCIENCE
LCS 2211 HORTICULTURE

First Semester Final main Examination Paper

JUNE 2019

This examination paper consists of 3 pages

Time Allowed: 3 hours
Total Marks: 100
Special Requirements: None
Examiner's Name: MR N. MATHEMA

INSTRUCTIONS

1. Answer **all** questions in Section A
2. Answer **only Three** questions in Section B

MARK ALLOCATION

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

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SECTION A: Answer all questions

Question 1.

- a. Define 'Horticulture' (2)
- b. Citing examples of crops that are grown in Zimbabwe, describe characteristics of horticultural crops (18)

Question 2.

It is proposed that we grow Oranges at the Gwanda State University farm. If you are requested to carry out an analysis of the chosen land, what factors would you consider in selecting a site for the Orchard/Orange plantation (20)

SECTION B: Answer any three questions**Question 3.**

- a. Using appropriate examples, discuss the constraints faced by various sectors in horticulture in Zimbabwe (10)
- b. 'Light quality, its intensity and duration are of paramount importance to horticultural crop production.' Discuss this statement citing examples of horticultural crops (10)

Question 4

- a) Define chilling requirement (2)
- b) Give an account of chilling requirement of deciduous fruit trees (10)
- c) Deciduous fruit are divided into groups. Name the two groups. (2)
- d) What are the problems faced in deciduous fruit production in the Tropics and sub-Tropics? (6)

Question 5

- a. Describe the pests and diseases of banana in Zimbabwe and preventative and curative methods to control them.(10)

Describe planting, plant populations and spacing and fertilizer application in banana production in Zimbabwe (10)

Question 6

- a. Compare the economic differences between vegetables and fruit production (15)
- b. Giving examples of crops of your choice, discuss the merits and demerits of transplanting vegetables (5)

Question 7

- a) The Irish potato plant is a long night plant for the tuberization response but a short-night plant for the flowering response. Explain what is meant by this statement and give the best time for planting potatoes in most areas of Zimbabwe. (10)

- b) 'Earthing up' is an important agronomic process in potato production. Describe how and why a resource poor rural farmer can earth up Irish potatoes.(10)