

GWANDA STATE UNIVERSITY FACULTY OF LIFE SCIENCES DEPARTMENT OF CROP SCIENCE BACHELOR OF SCIENCE HONOURS DEGREE IN ANIMAL SCIENCE LCS 2108 PRINCIPLES OF CROP PRODUCTION FIRST SEMESTER FINAL EXAMINATION PAPER

NOVEMBER 2019

This examination paper consists of 3 pages, inclusive of cover page

Time Allowed: 3 hours

Total Marks: 100

Special Requirements: None

Examiner's Name: MR H. TIBUGARI

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

Monocropping

[40 marks]

Question 1

Expla	Explain the importance of the following crop production practices:					
i.	Variety selection	(2)				
ii.	Hardening of seedlings,	(2)				
iii	. Scouting,	(2)				
iv	. Knapsack sprayer calibration	(4)				
v.	Irrigation scheduling	(3)				
Examine the merits and demerits of the following weed management methods:						
i.	Hand weeding	(5)				
ii.	Chemical weed control	(5)				
iii.	Mechanical weed control	(5)				
Using examples, explain the following cropping systems:						
i.	Intercropping	(4)				
ii.	Relay cropping	(4)				
	i. ii. iiv v. Exam i. iii. iii. Using i.	 ii. Hardening of seedlings, iii. Scouting, iv. Knapsack sprayer calibration v. Irrigation scheduling Examine the merits and demerits of the following weed management i. i. Hand weeding ii. Chemical weed control iii. Mechanical weed control Using examples, explain the following cropping systems: i. Intercropping 				

SECTION B

iii.

Answer any three questions. Each question carries 20 marks.

Question 2

Identify any one field crop and examine its production under the headings:

i.	Ecology and growing conditions		(4)
ii.	Land preparation and crop husbandry	(6)	
iii.	Harvesting and postharvest handling	(6)	
iv.	Utilisation		(4)

Question 3

Examine how climate change is affecting crop production in Southern Africa.(20)

Question 4

Explain the production of any one forage crop under the headings:

a.	Climatic and soil requirements,	(3)
b.	General agronomic practices,	(8)
c.	Pests and diseases,	(5)
d.	Silage and hay-making.	(4)

(4)

Question 5

Examine l	how]	Information	and Co	ommunicat	ion Tecl	hnology	can i	mprove of	crop
production	n in A	Africa.							(20)

Question 6

Identify any one plantation crop and explain its production under the headings:

a.	Ecology and growing conditions	(4)
b.	Land preparation and crop husbandry	(6)
c.	Harvesting and postharvest handling	(6)
d.	Processing and utilisation	(4)