

ZIMBABWE UNIVERSITY
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EXAMINATIONS OFFICE



GARY MAGADZIRE SCHOOL OF AGRICULTURE AND NATURAL SCIENCES

DEPARTMENT OF SOIL AND PLANT SCIENCES

BACHELOR OF SCIENCE HONOURS DEGREE IN AGRICULTURE (CROP SCIENCES)

LEVEL 2 SEMESTER 1

EXAMINATION QUESTION PAPER

MODULE CODE: ACS 211

MODULE NARRATION: PRINCIPLES OF CROP PRODUCTION

DATE:

DURATION: 3 HOURS

INSTRUCTIONS TO CANDIDATES:

- 1. Answer any FOUR questions.**
- 2. Each question carries 25 marks.**

Question 1

Describe:

- a) tillage systems. [10]
- b) the principles of crop rotation. [15]

Question 2

Explain the following:

- a) the negative effects of organic manure on crop growth. [10]
- b) **Five (5)** aspects of rainfall which are important in crop production. [15]

Question 3

- a) Explain the significance of the following in climate change adaptation:
 - i. planting patterns. [5]
 - ii. planting dates. [5]
 - iii. water harvesting. [5]
- b) Describe the important adaptation traits in crop cultivars. [10]

Question 4

As an extension agronomist, explain why you would encourage newly settled A2 farmers to use integrated pest management practices in cotton. [25]

Question 5

- a) Explain any **five (5)** farming practices that improve soil structure. [10]
- b) Describe **five (5)** factors do you consider when choosing a crop to grow in an area. [15]

Question 6

Explain where one can apply the following:

- a) Alley cropping. [5]
- b) Strip cropping. [5]
- c) Intercropping. [5]
- d) Intercropping. [5]
- e) Fertigation [5]

END OF PAPER