



“Investing in Africa’s future”

COLLEGE OF HEALTH, AGRICULTURE AND NATURAL SCIENCES

BSc Agriculture and Natural Resources Weekend Programme

ACP 307: FIELD CROP PRODUCTION

END OF SECOND SEMESTER EXAMINATIONS

APRIL/MAY 2019

LECTURER: Mr. Tabarira J.

DURATION: 3 HRS

INSTRUCTIONS

Answer any **five** questions

All questions carry equal marks (20).

DO NOT repeat material.

Write legibly.

Credit will be awarded for logical, systematic and neat presentations

Question 1

- a. State and explain factors affecting the speed of crop development, (Give illustrative examples) [10]
- b. State four yield components of maize and explain how each component contribute to the final yield. [10]

Question 2

- a. Define plant development switches and explain how they can be manipulated to increase crop productivity. [10]
- b. Discuss the benefits of including soyabeans in a crop production system [10]

Question 3

Write explanatory notes on the following:

- a. Role of crop management on crop productivity [4]
- b. Biological yield [3]
- c. Economic yield [5]
- d. Production challenges of sesame [4]
- e. Economic importance of cassava [4]

Question 4

- a. Discuss how the knowledge of crop development stages can be used by the farmer to maximise crop yield. [10]
- b. Outline the importance of plant classification in crop production [5]
- c. State the advantages of hand harvesting soyabeans as opposed to combine harvesting [5]

Question 5

Write brief notes on the following:

- a. Crop production as a business [5]

- b. Reasons why cassava production is not popular in Zimbabwe [5]
- c. Challenges and possible solutions in sweet potato production [10]

Question 6

- a. Over emphasis on cash crop production has negative impacts on national food security, discuss [10]
- b. With the aid of a well labelled sketch diagram discuss the different growth stages of a standard crop growth curve. [10]

Question 7

- a. Outline the benefits of practicing crop rotation in field crop production systems [10]
- b. Discuss the possible reasons why tobacco production is more popular than cotton [10]

End of Paper
