

P515/2
**PRINCIPLES AND
PRACTICES
OF AGRICULTURE**
Paper 2
July/August 2025
3 Hours

ASSHU ANKOLE JOINT MOCK EXAMINATIONS 2025

Uganda Advanced Certificate of Education

PRINCIPLES AND PRACTICES OF AGRICULTURE

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3 hours

INSTRUCTIONS TO CANDIDATES

This paper consists of five sections A, B, C, D and E

Section A is compulsory and attempt other four questions selecting one from each of the sections B, C, D&E

SECTION A (20 MARKS)

Question 1 is compulsory

The table below shows information about maturation time and yield for a variety of maize planted in different areas in Uganda. study it and answer the questions that follow

Region	Naturation period (days)	yield (kg/ha)
A	114	2000
B	98	1500
C	92	1200
D	100	1080

- Describe the trend about maturation time and yield for the variety of maize planted in different regions. (02 Marks)
- Explain the causes for the difference in yield and maturation period of a variety of maize planted in different regions. (02 marks)
- Describe the post –harvest handling practices to be done on maize.

SECTION B (20 MARKS)

CROP PRODUCTION

Answer one question from this section

- Explain the factors that determine the method of fertilizer application. (08marks)
 - Explain the factors affecting the efficiency of fertilizer use by plants (09 marks)
 - Outline ways by which soil fertility may be lost. (03 marks)
- What benefits do crops get when interplanted with trees. (08 marks)
 - Outline the problems encountered in the management of forests in Uganda. (06 marks)
 - What measures should be taken to solve the problems in (b) above? (06 marks)

SECTION C
ANIMAL PRODUCTION
Answer one question from this section

4. (a) What roles does water play in the body of an animal? (06 marks)
(b) Explain the factors influencing the amount of water intake in animals. (14 marks)
5. (a) Explain the causes of low breeding efficiency in farm animals. (08 marks)
(b) How can high breeding efficiency be maintained in a herd. (12 marks)

SECTION D (20 MARKS)
AGRICULTURAL ENGINEERING
Answer one question from this section

6. (a) Discuss the factors that are considered when planning a farm layout. (14 marks)
(b) What are the benefits of proper farm planning? (06 marks)
7. (a) Outline the objectives of tilling land. (05 marks)
(b) What are the pre-requisites for agricultural mechanization? (06 marks)
(c) Discuss the factors that influence the choice of tillage implements for cultivation (09 marks)

SECTION E (20 MARKS)
AGRICULTURAL ECONOMICS
Answer one question from this section

8. (a) Discuss the causes of high population growth in developing countries. (12 marks)
(b) Outline the negative consequences of an increasing population. (08 marks)
9. (a) Outline the causes of low food production in Uganda. (10 marks)
(b) Explain how agricultural research centres in Uganda have contributed to increased food production (10 marks)

END