P515/2 PRINCIPLES AND PRACTICES OF AGRICULTURE (Theory essay) Paper 2 Jul/Aug 2019 3 Hours



MUKONO EXAMINATION COUNCIL Uganda Advanced Certificate of Education PRINCIPLES AND PRACTICES OF AGRICULTURE

(Theory Essay)

Paper 2

3 Hours

INSTRUCTIONS TO CANDIDATES

- ✓ This paper consists of sections A, B, C, D and E
- ✓ Answer question 1 in section A and four other questions, selecting one from each of section B,
 C, D and E
- ✓ Any additional question(s) attempted will not be marked.

SECTION A: COMPULSORY QUESTION

- 1. A study was carried out to investigate dry matter, palatability and digestability and carrying capacity of Elephant grass at different stages of growth.
- (a) Distinguish between palatability and digestability. (2 marks)
- (b) State and explain the relationship between;
 - (i) Palatability and digestability and stage of growth. (3 marks)
 - (ii) Dry matter and carrying capacity at different stages of growth. *(3 marks)*
- (c) At what stage would you recommend a farmer to graze his livestock? Give reasons for your answer. (4 marks)
- (d) Mention the stage each letter represents in figure 1 above. (4 marks)
- (e) Explain other factors that influence the carrying capacity of the pasture. (4 marks)

SECTION B (20 MARKS) CROP PRODUCTION

2. (a) Explain ways in which weeds are spread from one place to another. (10 marks)
(b) Explain the features that enable weeds survive in their Environment. (10 marks)
3. (a) Outline the importance of organic matter in the soil. (8 marks)
(b) Explain how organic matter improves soil properties. (12 marks)

SECTION C (20 MARKS)

ANIMALS PRODUCTION

4.	(a) Explain the factor that affect animals distribution in Uganda.	(12 marks)
	(b) Give the advantages of ranching.	(8 marks)
5.	(a) Explain the process of milk let dowm in a dairy goat.	(8 marks)

(b) Discuss the factors that affect the amount of milk produced by a dairy cow.

(12 marks)

SECTION D (20 MARKS)

AGRICULTURAL ENGINEERING

6.	(a) Explain the various method of treating water on a farm.	(10 marks)
	(b) Explain the factors considered when selecting a site for	construction of a dam on a
	farm.	(10 marks)
7.	(a) State the functional requirement of a good farm store.	(8 marks)
	(b) Describe the qualities of a good site for a farm store.	(12 marks)

SECTION E (20 MARKS)

AGRICULTURAL ECONOMICS

8.	(a) Explain the functions of a farm manager.	(12 marks)
	(b) Explain the factors considered when designing a farm lay out.	
9.	Explain the various marketing functions a farmer must meet when marketing his	
	produce on a farm.	(14 marks)

(b) Give six advantages of processing tomatoes before marketing. (6 marks)

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