**P515/2**

**PRINCIPLES AND**

**PRACTICES OF**

**AGRICULTURE**

**Paper 2**

**Jul./Aug. 2018**

**3 Hours**

**SENIOR EDUCATION CONSULTANTS (SEC)**

**JOINT MOCK EXAMINATIONS, 2018**

Uganda Advanced Certificate of Education

**PRINCIPLES AND PRACTICES OF AGRICULTURE**

**(Theory)**

**Paper 2**

3hours

**INSTRUCTIONS TO CANDIDATES:**

* *This paper consists of* ***five*** *sections,* ***A****,* ***B****,* ***C, D*** *and* ***E****.*
* *Answer question* ***1*** *in section* ***A*** *and* ***four*** *questions taking at least* ***one*** *question from sections* ***B****,* ***C****,* ***D*** *and* ***E****.*

**Turn Over**

**SECTION A (COMPULSORY)**

1. A study was carried out to investigate dry matter and palatability of Guinecra grass at different growth stages.

Palatability

Dry mater

A

B

C

Stage of growth

1. Define the term palatability. (02 marks)
2. State and explain the relationship between palatability and dry matter.

(04 marks)

1. At what stage would you recommend a farmer to graze his livestock? Give a reason for your answer. (02 marks)
2. What factors influence palatability of the pasture? (06 marks)

(e) Other than the factors in the graph, what factors may influence the farmer to choose a pasture species to grow? (06 marks)

**SECTION B**

**CROP PRODUCTION**

2. (a) Explain the different ways of how drainage affect agricultural products.

(10 marks)

(b) Suggest the consideration to be made when choosing a method of drainage.

(10 marks)

3. (a) What is understood by

(i) urban farming (02 marks)

(ii) peri urban farming (02 marks)

(b) Describe the characteristics of commercial farming. (08 marks)

(c) What are the challenges faced by urban farmers? (08 marks)

**SECTION C**

**ANIMAL PRODUCTION**

4. (a) Give reasons why it is advisable to use calves reared on the same farm for stock replacement. (05 marks)

(b) What factors are considered when starting a diary farm? (10 marks)

(c) Identify the factors considered when selecting animals for dairy production.

(05 marks)

5. (a) Describe the factors considered when setting an Apiary. (08 marks)

(b) What management practices can be carried out to maintain an Apiary?

(08 marks)

(c) Explain the causes of swarming in bees in a hive. (04 marks)

**SECTION D (20 MARKS)**

**AGRICULTURAL ENGINEERING**

6. (a) Describe the factors that have influenced the success of draught cultivation.

(08 marks)

(b) What management practices can be carried out on draught animal to improve poor output? (08 marks)

(c) What are the advantages of using draught power in Agriculture? (04 marks)

7. (a) Describe the procedure followed to produce good quality bricks. (10 marks)

(b) Explain the factors that determine the quality of bricks laid. (06 marks)

(c) What are the advantages of using concrete blocks over other types?

(04 marks)

**SECTION E**

**AGRICULTURAL ECONOMICS**

8. (a) Describe the different types of efficiency standards . (02 marks)

(b) What factors influence efficiency standards in farming? (12 marks)

(c) Outline the objectives of carrying out efficiency standards. (06 marks)

9. (a) Explain the role played by each of the following in Agricultural improvement in Uganda.

(i) NAADS (05 marks)

(ii) NARO (05 marks)

(b) Give reasons why agriculture is still underdeveloped despite government efforts to modernize it. (10 marks)

***END***