**Name : ....................................................................................... Centre/Index No. ............**

**Signature: ..................................................................................**

**P515/2**

**PRINCIPLES**

**AND**

**PRACTICES OF**

**AGRICULTURE**

Paper 2

**Theory**

**July/Aug. 2017**

3 hrs

**Uganda Advanced Certificate of Education**

**MOCK EXAMINATIONS**

**Principles and Practices of Agriculture**

THEORY

Paper 2

3 hours

**INSTRUCTIONS TO CANDIDATES**

*Question* **1** *is compulsory, answer other* **four** *questions, choosing* **one** *question from each of the sections* **B, C, D** *and* **E.**

*Start each question on a new page or sheet of paper.*

*Illustrations and examples will earn you a bonus mark.*

**Turn Over**

**SECTION A: (20 marks)**

**COMPULSORY QUESTION**

1. The table below shows the effect of applying different concentrations of auxins to the shoots and roots of legume seedlings.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Auxin concentration (parts per million) | |  |  |  |  |  |  |
| Elongation relative to control (mm) | Shoot |  |  |  |  |  |  |
| Root |  |  |  |  |  |  |

(a) Express the results above graphically on the same axes. (10 marks)

(b) Explain how these results may be related to geotropic responses as shown by

stems and roots. (06 marks)

(c) Suggest how the growth responses in stems and roots are important to plants. (04 marks)

**SECTION B: (20 marks)**

**AGRICULTURAL ECONOMICS**

2. (a) Explain the term “Gender”. . (02 marks)

(b) Suggest reasons why women’s participation in commercial farming is limited in Uganda. (10 marks)

(c) How can the government of Uganda increase participation of women in commercial farming? (08 marks)

3. (a) With illustrations, describe increase in;

1. Quantity supplied, (03 marks)
2. Supply curve. (03 marks)

(b) Explain how price is determined in a free and competitive market. (06 marks)

(c) How can farmers improve agricultural production to ensure food security, stable domestic, regional and international markets? (08 marks)

**SECTION C**

**CROP PRODUCTION: (20 marks)**

4. Organic farming is said to lead to sustainable agriculture.

(a) What do you understand by the term?

(i) organic farming, (02 marks)

(ii) sustainable agriculture. (02 marks)

(b) State the benefits of sustainable agriculture. (10 marks)

(c) Why is organic farming not widely spread in Uganda yet it leads to sustainable use of resources? (06 marks)

5. (a) Differentiate between urban and peri – urban agriculture. (02 marks)

(b) State characteristics of peri – urban agriculture. (10 marks)

(c) What are the benefits of urban agriculture? (08 marks)

**SECTION D**

**ANIMAL PRODUCTION: (20 marks)**

6. (a) Describe **six** methods of selection. (12 marks)

(b) Explain factors to consider when selecting animals for breeding. (08 marks)

7. (a) Explain factors determining stocking rates of fish in the ponds. (08 marks)

(b) Describe ways of processing and preserving fish. (08 marks)

(c) State **four** features of a good site for a fish pond. (04 marks)

**Turn Over**

**SECTION E: (20 marks)**

**AGRICULTURAL MECHANISATION AND ENGINEERING**

8. (a) Describe the procedure of yoking draught animals for a day’s work. (10 marks)

(b) Explain factors limiting use of drought animal power in Uganda. (10 marks)

9. (a) State features of a good farm store. (08 marks)

(b) Describe qualities of a good site for a farm store. (12 marks)

**END**