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

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

**P515/3**

**PRINCIPLES**

**AND**

**PRACTICES OF**

**AGRICULTURE**

Paper 3

**PRACTICAL**

**July/Aug. 2017**

2 hours

**Uganda Advanced Certificate of Education**

**MOCK EXAMINATIONS**

**Principles and Practices of Agriculture**

PRACTICAL

**Paper 3**

**2 hours**

**INSTRUCTIONS TO CANDIDATES**

*Answer* **all** *the questions.*

**All** *answers* **must** *be written in the spaces provided.*

**No** *extra answer sheet. Be neat and use pencil for drawings.*

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| **For Examiner’s Use Only** | | |
| **Question** | **Marks** | **Examiner’s Number and Signature** |
| **1.** |  |  |
| **2.** |  |  |
| **3.** |  |  |
| **4.** |  |  |
| **5.** |  |  |
| **Total** |  |  |

**Turn Over**

1. You are provided with specimens ***A*** and **.**

(a) (i) Whatare the specimens commonly used for in crop production? (01 mark)

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(ii) Describe the procedure of using the specimens in a vegetable garden. (04 marks)

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(b) (i) State the importance of using this specimen as described in (a) (ii)

above in vegetable growing. (03 marks)

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(ii) Outline **four** problems associated with the use of specimen in a garden of bananas. (02 marks)

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2. Specimens,,,and are livestock parasites.

(a) (i) Describe the features of each parasite. (02 marks)

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**Turn Over**

(ii) State adaptations of specimens that make them suitable to live parasitic

life. (02 marks)

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(b) (i) Pair the parasites according to mode of attack of the host animal. (01 mark)

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(ii) Give **two** effects of each pair. (02 marks)

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(c) (i) Suggest **two** control measures for each pair of the parasites in (b)

above. (02 marks)

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(ii) Outline **one** sign of infestation of each pair. (01 mark)

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3. You are provided with specimens ,and,which are dry soil samples obtained from different fields.

(a) (i) Using thumb method, describe the textural class of each specimen.

(01 mark)

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**Turn Over**

(ii) Which type of soil is (01 mark) …………………………………………………………………….

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(b) (i) Measure soil samples and . Weigh of each and pour in measuring cylinder record the volume. Measure water that can

top up to make soil + water = before mixing, pour the

measured water into the soil and stir until no more bubbles are seen. Record you results in the table below. (02 marks)

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| **Specimen** | **Weight of soil** | **Volume of mixture before stirring** | **Volume of soil after stirring** |
|  |  | 100 |  |
|  |  | 100 |  |

(ii) Using information in table above, calculate; (04 marks)

Bulk density

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Particle density

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Pore density

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(c) Hold the mouth of the cylinder with palm and shake the contents vigorously.

(i) Name **two** soil physical properties you can observe from the

experiment. (01 mark)

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(ii) Draw the contents after settling from your observations. (03 marks)

(iii) Suggest **two** factors that affect bulk density of the soils above.

(02 marks)

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**Turn Over**

4. You are provided with specimens ,,and, which are used on the farm.

(a) (i) Give the group of specimens ,,and. (01 mark)

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(ii) Give **one** use for each of the specimens. (2½ marks)

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…………………………………………………………………………………………(b) Describe the procedure of using specimen on the farm. (05 marks)

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(c) (i) Give **one** way of maintaining each specimen on the farm. (1½ mark)

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(ii) What is the relationship between and. (01 mark)

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5. Specimens and are plants growing with crops.

(a) (i) Name the group of specimens and. (01 mark)

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(ii) Draw each of the specimens to describe their morphology. (05 marks)

Drawing of

Drawing of

**Turn over**

(b) (i) How is each specimen propagated?(02 marks)

Propagation of Specimen

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Propagation of Specimen

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(ii) Give **two** cultural control measures for each specimen. (02 marks)

Control of

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Control of

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