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| Candidate's Name | | | | | | | | | |
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(Do not write your school/Centre Name or number anywhere on this booklet)

527/2
Principles and practices
Of Agriculture
Paper 2
(Practical)
July/August 2019
2 hours

MOCK EXAMINATION 2019

UGANDA CERTIFICATE OF EDUCATION PRINCIPLES AND PRACTICES OF AGRICULTURE

(Practical)
Paper 2
2 HOURS

Instructions to Candidates:

This paper consists of five questions

Answer all questions.

The answers are to be written in ink in the spaces provided.

| FOR EXAMINER'S USE ONLY | | | | | | |
|-------------------------|-------|----------------------|--|--|--|--|
| Question | Marks | Examiner's Signature | | | | |
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| TOTAL | | | | | | |

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- 1. You are provided with specimens A_1 and A_2 which are soil samples. Carry out the following experiments using these soil samples.
 - (a) Place 80cm³ of A₁,into a measuring cylinder. Ensure that the soil is well compacted by gently tapping the cylinder.
 - Pour 20cm³ of water onto the soil and allow to stand for 5 minutes.
 - Repeat the experiment with soil sample A₂
 - (i) Measure the depth of the wet soil in each measuring cylinder and record in the space below

| | Depth in A ₁ Depth in A ₂ | |
|-------|---|------------|
| | 1 - | (1 mark) |
| (ii) | Suggest an explanation for your results in (a) (i) above Explanation A ₁ | |
| | | |
| | | |
| | | |
| | | |
| | A_2 | |
| | | |
| | | |
| | | |
| | | (1 mark) |
| (iii) | Basing on your results comment on the suitability of each sp crop production | ecimen for |
| | A ₁ | |

| | | • |
|------------------|--|---|
| | | (1 mark) |
| | | |
| | A ₂ | |
| | | |
| | •••••• | |
| | •••••• | ••••• |
| | | |
| (1) D : | | (1 mark) |
| - D | a spatula full of A ₁ in a test tube. Add 2cm ³ of water, shake and Decant a clear liquid into another test tube. Add drops of universal indicator | rieave to settle |
| (i) Repe | Using a pH chart provided record the pH of A_1 in the space eat this experiment with soil sample A_2 | below |
| pН | of A_1 | (1 mark) |
| pH o | of A ₂ | (1 mark) |
| (ii) | Suggest the possible causes of the observed pH of each spec | eimen |
| A_1 | | |
| | | |
| | | |
| | | |
| \mathbf{A}_{2} | | (1 mark) |
| 112 | | |
| ••••• | •••••• | ••••••• |
| | | |
| (iii) | How can the pH of the specimens be modified to suit crop p | (1 mark) production |
| () | For A_1 | • |

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| | | |
| | | (1 mark) |
| | For A ₂ | |
| | | |
| | | (1 mark) |
| 2. | You are provided with specimens B_1 B_2 and B_3 B_4 and B_5 which are farm operation | e used together in a |
| | (a) Name the farm operation where these specimens are used. | (½ marks) |
| | (b) State the function of each specimen | |
| | B ₁ | |
| | | |
| | $B_2 \dots B_2$ | |
| | | (½ mark) |
| | B_3 | ••••• |
| | | (½ mark) |
| | B ₄ | · · · · · · · · · · · · · · · · · · · |
| | | |

(c) State the design/features on each specimen that make them suitable for their functions. $B_1 \dots$

(½ mark)

(½ mark)

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|--|----------|
| | |
| | ••••• |
| | /1 1 |
| $B_2 \dots B_2$ | (1mark |
| | |
| | (1 mark |
| | (Tillian |
| | |
| To the state of th | |
| B_3 | |
| | |
| | (1 mark |
| B ₄ | · |
| | |
| | |
| B ₅ | (1 mark |
| | |
| | |
| | (2 mark |
|) Describe the procedure of the operation while | |
| | (2 mark |
| | |
| | |

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| | | | |
| | | | |
| pecimens C_1 and C_2 a | re obtained from farm anim | als | |
| specimen and its con | re obtained from farm animalens and their contents then ontents in table 1 below. | describe the structure of ea | ach |
| a) Observe the specime | ens and their contents then on tents in table 1 below. Description of con | describe the structure of eatents and structure | ach |
| specimen and its con | ens and their contents then on the theorem in table 1 below. | describe the structure of ea | ach |
| Specimen Specimen | ens and their contents then on tents in table 1 below. Description of con | describe the structure of eatents and structure | ach |
| Specimen Specimen | ens and their contents then on tents in table 1 below. Description of con | describe the structure of eatents and structure | ach |
| Specimen Specimen C ₁ | ens and their contents then on tents in table 1 below. Description of con | describe the structure of eatents and structure | ach |
| Specimen Specimen C ₁ | ens and their contents then on tents in table 1 below. Description of con | describe the structure of eatents and structure | ach |
| Specimen C ₁ C ₂ | ens and their contents then on tents in table 1 below. Description of con Structure | tents and structure Contents | ach |
| Specimen C1 C2 Name the farm anim | ens and their contents then on tents in table 1 below. Description of con | tents and structure Contents men was obtained | |

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(c) From which system of the farm animal was each specimen obtained?

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|-----------|-----------------------------------|----------------------------|--|
| | C_1 | | (1 mark) |
| | C ₂ | | (1 mark) |
| | (d) How is each specin | nen suited to its function | ? (2 marks |
| | C ₁ | | |
| | | | |
| | | | |
| | $C_2 \dots C_2$ | | |
| | | | |
| | | | |
| 4. | and D ₂ and answer que | estions below. | iseases. Closely examine the parts D_1 the disease responsible for the damage. (2 marks) |
| | Specimen | plant part | Disease |
| | \mathbf{D}_1 | | |
| | D_2 | | |

(b) Write down the observable damage on each of these specimens. $\begin{array}{c} D_{1} \\ D_{1} \\ \end{array} \tag{2 marks}$

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| | | |
| | | |
| | | |
| | | (2 marks) |
| | (c) Mention possible ways of controlling each of these diseases on res | · |
| | plants | 1 |
| | Control of effect on | |
| | D_1 | |
| | | |
| | | |
| | | (2 marks |
| | $\mathrm{D}_2 \ldots \ldots \mathrm{D}_2$ | |
| | | |
| | | |
| | | ••••• |
| | | ••••• |
| | | (2 marks) |
| | | |
| | | |
| | | |
| 5. | Specimens E ₁ E ₂ E ₃ and E ₄ can be used as animal feeds. Study the specimens and answer the questions below | |
| | (a) State two benefits of feeding each of the specimens to live stock | (2 marks) |
| | E ₁ | |
| | | |
| | E_2 | |
| | | |
| | E ₃ | |
| | | |
| | | |
| | E_4 | |

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| (b) | Give t | three advantages of feeding E_3 instead of E_4 to animals. | (2 marks) |
|-----|--------|--|-----------|
| | (i) | | |
| | (ii) | | |
| | (iii) | | |
| (c) | | ibe how specimen E_2 is prepared. | (3 marks) |
| | | | |
| | | | |
| | | | |
| | | | |
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| | | | |
| | | | |

END