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527/2

**PRINCIPLES AND PRACTICES**

**OF AGRICULTURE**

**PAPER 2**

JULY/AUGUST 2016

2HRS

WESTERN JOINT MOCK EXAMINATIONS

Uganda Certificate of Education

**PRINCIPLES AND PRACTICES**

**OF AGRICULTURE**

**PAPER 2**

2HOURS

**INSTRUCTIONS TO CANDIDATES**

* This paper consists of **five** questions
* Answer all the questions
* The answers are to be written in ink in the spaces provided

|  |  |  |
| --- | --- | --- |
| **Question** | **For Examiner’s use only** | |
| **Marks** | **Examiner’s signature and initials** |
| **1** |  |  |
| **2** |  |  |
| **3** |  |  |
| **4** |  |  |
| **5** |  |  |
| **Total** |  |  |

1. (a) You are provided with specimen **X** observe the specimen and identify it **1mk**

...................................................................................................................................................... (b) Describe the condition of the specimen **1mk**

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...................................................................................................................................................... (e) Name the system of livestock rearing where the specimen is used **1mk**

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2. You are provided with specimens F1, F2 and G

(a) State the systems to which the specimens belong **1mk**

F1…………………………………………………………………………………………..…………..…………..

F2……………………………………………………………………………………….…………………………..

G…………………………………………………………………………………………………………………… (b) Give the functions of the specimens in the systems to which they belong **1mk**

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……………………………………………………………………………………………………………………………… (c) (i) Examine specimens F1 and F2 and identify faults on each **1mk**

F1…………………………………………………………………………………..……………………………..

F2………………………………………………………………………………………………..……………….. (ii) Suggest the effects of the faults on specimens F1 and F 2 **2mks**

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(d) Describe how the structures on specimen **G** enable it to work effectively **3mks**

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...................................................................................................................................................... (e) Observe carefully specimen **G** and giving reasons, state its conditions **2mks**

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3. You are provided with specimens A, B, C, D and E which are used in livestock management.

(a) (i) Name a common farm operation which may be carried out using the specimens **1mk**

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(b) What is the importance of using **C** in the operation stated in (a) (i)? **2mks**

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A:.................................................................................................................................................

E:................................................................................................................................................

(ii) Describe how the structure of each specimen A and E is related to their functions **2mks**

A:…………………………………………………………………………………………….……………………………

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E:………………………………………………………………………………….……………………………………………………………………………………………………………………………….……………………………………

4. Specimens K1, K2, K3, and K4 are crop plants attacked by diseases.

(a) Describe the symptoms on each specimen and identify the causal organisms for each disease, in the following table. **4mks**

|  |  |  |
| --- | --- | --- |
| Specimen | Description of symptoms | Causal organisms |
| K1 |  |  |
| K2 |  |  |
| K3 |  |  |
| K4 |  |  |

(b) State the agents responsible for the transmission of diseases on each specimen **2mks**

K1...........................................................................................................................................

K2...........................................................................................................................................

K3...........................................................................................................................................

K4...........................................................................................................................................

(c) Which of the diseases on the specimens cannot be controlled by spraying with chemicals? Give a reason **2mks**

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(d) Give one precautionary measure which can be taken to control the disease observed on each specimen **2mks**

K1........................................................................K2.......................................................................K3........................................................................K4……………………………………………………..

5. You are provided with specimens D1, D2, D3, D4 and D5 which are building materials.

(a) Explain how each specimen is used in the construction of farm structures **5mks**

D1..............................................................................................................................................

D2..............................................................................................................................................

D3.............................................................................................................................................

D4..............................................................................................................................................

D5..............................................................................................................................................

(b)(i) What problems are associated with using specimens D1 and D5 during construction? **1mk**

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(ii) Suggest what can be done to each of the specimen D2 and D4 to make them last longer.**1mk**

D2......................................................................................................................................

D4......................................................................................................................................

(c) A farmer wishes to construct a farm barn measuring 5m height, 6m length and a width of 2m. Calculate the quantity of specimen D2 that the farmers would require **3mks**

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