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| **NAME:** |  | **INDEX NO:** |  |
| **SCHOOL:** |  | **SIGNATURE:** |  |

**P515/3**

**PRINCIPLES**

**AND PRACTICES**

**OF AGRICULTURE**

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***🖎***

**Community**

UNNASE MOCK EXAMINATIONS

**Paper 3**

**August, 2019**

**2 hrs**

***Uganda Advanced Certificate of Education***

**PRINCIPLES AND PRACTICES OF AGRICULTURE**

**PAPER 3**

**2 HOURS**

**INSTRUCTIONS TO CANDIDATES:**

* *Answer all questions writing your answers in spaces provided.*

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| **EXAMINER’S USE** | | |
| **QUESTIONS** | **MARKS** | **EXAMINER’S INTIAL** |
| 1 |  |  |
| 2 |  |  |
| 3 |  |  |
| 4 |  |  |
| 5 |  |  |
| **TOTAL** |  |  |

1. You are provided with specimens A,B and C which are milk samples

(a) Describe the condition of each specimen. *(1½ mark)*

A ......................................................................................................

B ........................................................................................................

C ........................................................................................................

(b) Suggest the cause of the condition of each specimen. *(1½ marks)*

A..............................................................................................................................................................................................................................................

B..............................................................................................................................................................................................................................................

C..............................................................................................................................................................................................................................................

(c) (i) How can the condition of sample B and C be avoided during milking

condition of B: *(2marks)*

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condition of C:

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(d) (i) Tests specimen C with both red and blue litmus paper and

record your observation in space below. *(1mark)*

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(ii) Give explanation for your results. *(1mark)*

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(e) From your results of the tests state two differences between specimen A and C.

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| **Specimen A** | **Specimen C** |
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2. You are provided with specimens F,G and H that are used in agriculture.

(a) Observe specimen F and describe how it is able to survive in its

habitat. *(3marks)*

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(b) Specimen G and H are used extract F from its habitat describe how

the specimens are used. *(2marks)*

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(c) (i) Describe the suitability of G to its function. *(2marks)*

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(ii) What general name is given to specimen H *(1mark*)

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(d) Give two disadvantages of using specimen G in fishing

farming. *(2marks)*

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3. Specimen D is a fertilizer

(a) Using the reagent provided, carry out the test in the table to identify the ions in the specimen.

Record your observations and deductions. *(4marks)*

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| **TEST** | **OBSERVATIONS** | **DEDUCTIONS** |
| (i)To a spatula endful of E in a test-tube add 4m3 of water, shake to dissolve and divide the solution into two parts. To the first part, add 5 drops of dilute sodium hydroxide solution & heat. Test the gas given off with litmus paper. |  |  |
| (ii)To the second part add 1cm3 of dilute nitric acid followed by 1cm3 of barium nitrate solution. |  |  |

(ii) State the ions present in D. *(1mark)*

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(b) From the tests in (a) suggest the identity of specimen D *(½ mark)*

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(ii) Suggest the macro nutrient present in D. *(½mark)*

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(c) State four ways in which the nutrient named in b(i) is important to plants. *(4marks)*

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4. You are provided specimen I,J,K & L which are used in construction.

(a) Give the ratios in which the specimens are mixed for each of the

following construction tasks

1. Binding bricks in wall construction

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1. Making concrete blocks *(1mark)*

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(b) What general name is given to the product in a(i) *(½mark)*

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1. Give three (3) other uses of the mixture in a(i) *(1 mark)*

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(c) (i) What name is given to a mixture of I,J,K and water *(½mark)*

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(ii) Describe the procedure of making the mixture named in (c)(i) above. *(3marks)*

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(d) Describe how specimen L is used in construction. *(1mark)*

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(ii) State the suitability of the specimen L to its function. *(1mark)*

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5. (a) Specimens H1 H2 H3 & H5 are plants found in a grazing land.

Classify them into suitable groups and give the name of each group. *(3marks)*

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(b) State the economic importance of specimen H4 and H5 to a dairy farmer

H4

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H5

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(c) Giving a reason state how specimen H4 is dispersed. *(2marks)*

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(d) What are the advantages of having H1 and H3 in a grazing land?

*(3marks)*

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**\*\*\*\* END \*\*\*\***