NAME:		INDEX NO:	
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P515/3
PRINCIPLES
AND PRACTICES
OF AGRICULTURE
Paper 3
August,2019
2hrs

UNNASE MOCK EXAMINATIONS

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.*

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.....

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B.....

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C.....

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(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.

Specimen A	**Specimen C**

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)*

TEST	**OBSERVATIONS**	**DEDUCTIONS**
(i)To aspatula endful of E in a test-tube add 4m^3 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 1cm^3 of dilute nitric acid followed by 1cm^3 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 *(½mark)*

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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

(i) Binding bricks in wall construction

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(ii) 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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(ii) 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 specimenL to its function. *(1mark)*

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5. (a) Specimens H_1 H_2 H_3& H_5 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 H_4 and H_5 to a dairy farmer

H_4

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H_5

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(c) Giving a reason state how specimen H_4 is dispersed. *(2marks)*

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(d) What are the advantages of having H_1 and H_3 in a grazing land? *(3marks)*

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