

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



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 a spatula 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 (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
(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 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 ******