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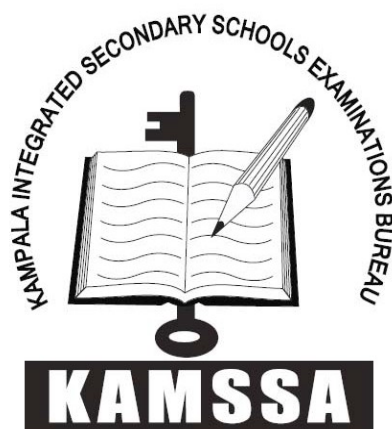
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*Principles &
practices of
agriculture
(Practical)*

Paper 2

July/August 2022

2 hours 30minutes



KAMSSA JOINT MOCK EXAMINATIONS
Uganda certificate of education

PRINCIPLES AND PRACTICES OF AGRICULTURE
PRACTICAL

Paper 2

2 hours 30 minutes

Instructions to candidates

- *Answer all questions in this paper*
- *All answers are to be written in **blue ink** in the spaces provided.*

FOR EXAMINER'S USE ONLY

Part/Question	Marks	Examiner's Signature
No.		
No.		
No.		
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1a) You are provided with specimen A and B which are soil samples. Measure 5cm^3 of soil sample A and put it in a test tube. Add in one spatula endful of Barium sulphate and shake them thoroughly. Add 8cm^3 of water and shake it until all the soil dissolves. Allow the content to settle for 5 minutes. Add in 4 drops of universal indicator solution and state your observation in the table below.

Repeat the above procedure with soil sample B

(03 marks)

Specimen	observation	PH	Deduction
A			
B			

b) Basing on your observation which of the two-soil sample is suitable for tea growing.

(01 mark)

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...

c) How can specimen B be modified so that its suitable for the growing of different crops basing on your observation in the table above.

(04 marks)

- (i).....
(ii).....
(iii).....
(iv).....

d) Mention the factors that may be responsible for the condition of specimen B using the deduction results.

(02 marks)

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2) You are provided with specimen J, K, L and M which are components of tractor engine.

a) Observe the specimen and suggest with a reason the type of engine system to which they belong. **(02 marks)**

System.....

Reasons;

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.....
.....
.....
.....

b) Describe the order how specimens J, K, L and M can work together to ensure performance of a tractor. **(04 marks)**

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ci) Observe specimen K and state 2 features that that enables it to perform its functions.

(02 marks)

(i).....

(ii).....

(iii).....

(ii) Suggest 4 ways how specimen M can be maintained in proper working conditions.

(02 marks)

(i).....

(ii).....

(iii).....

(iv).....

3a) You are provided with the following specimen which are field weeds. Observe the specimens and give the features which enable them to survive in the field. **(4 ½ marks)**

Specimen	Observable features
C
D
E

b) Basing on the observable features indicate how each specimen can be multiplied in the field. **(03 marks)**

C.....
.....
D.....
.....
E.....
.....

c) Describe how specimen D can be controlled effectively in the garden using mechanical method. **(2 ½ marks)**

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4) You are provided with the following specimens which are used in poultry unit.

a) Describe the procedure of using specimen F in poultry unit. **(2 ½ marks)**

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b) Give one function of each specimen in the poultry unit. **(1 ½ mark)**

G.....
.....

H.....
.....

I.....
.....

c) What will happen if the deep litter house with layers birds if specimen H is inadequate.

(02 marks)

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d) What are possible causes of wetness of specimen H in the deep litter houses? **(04 marks)**

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5a) You are provided with the following specimens which are building materials. Give one function of each specimen. **(02 marks)**

N.....
.....

O.....
.....

P.....
.....

Q.....
.....

b) Using observable features, state how specimen N is suitable for the above functions.

(03 marks)

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c) When should the builders apply specimen P on the building and give a reason. **(02 marks)**

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d) How can you maintain specimen O and Q.

(03 marks)

O.....
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.....
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Q.....
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.....
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END