STUDENTS NAME:	
SCHOOL NAME:	RANDOM NUMBER

P515/3
PRINCIPLES AND PRACTICES
OF AGRICULTURE

(Practical)
Paper 3
July/Aug. 2022
3 hours.



AITEL JOINT MOCK EXAMINATIONS

Uganda Advanced Certificate of Education
PRINCIPLES AND PRACTICES OF AGRICULTURE
(PRACTICAL)

Paper 3 3 Hours

INSTRUCTIONS TO CANDIDATES:

This paper consists of **five** questions. Answer **all** questions.

All answers are to be written in the spaces provided.

FOR EXAMINER'S USE ONLY

QUESTION	MARKS	EXAMINER'S SIGNATURE & NO.
Qn. 1		
Qn. 2		
Qn. 3		
Qn. 5		
Qn. 5		
Total		

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Turn Over

1. You are provided with specimen A which is a solution of a fertilizer. You are required to carry out a test on A to establish the identity of the major nutrient content.

Use Iron-II Sulphate solution and concentrated Sulphuric acid.

a) i) Describe your procedure and carry out the test, record observation(s) and conclusion in the table below; (03½ marks)

Procedure	Observation (s)	Conclusion

contained in the fertilize	made in (i) above, identi er.	(0½ mark)
b) The fertilizer used to nutrient identified per 5	make specimen A conta 50kg bag. If the recomme ent is 75kg/ha for maize	ins 46% of the major ended rate of

above quantity of fertilizer.	(03 marks)
•••••	

- 2. You are provided with specimen $\mathbf{B_1}$ and $\mathbf{B_2}$ which are soil samples. Carry out an experiment to determine the PH of each sample using litmus papers.
- a) Describe your procedure, state the observation(s) and conclusion in the table below.

Specimens	Procedure	Observation (s)	Conclusion
B ₁			
\mathbf{B}_2			

3

b) Basing on the results from the experiment in (a) above, so possible cause of the condition of each specimen.	uggest a (01 mark)
${f B}_1$	
\mathbf{B}_2	
c) How can the condition of each specimen be modified to suproduction?	uit crop (01 mark)
d) How does the condition of each specimen affect crops?	(02 marks)
\mathbf{B}_1	
	•••••
${f B_2}$	•••••
	•••••
	•••••
3. Specimens C , D and E are samples of ingredients that ca to formulate livestock rations. Observe them carefully and a following questions. a) What is the most important food nutrient looked for in easpecimens? (01½ C	inswer the
D	•••••

E

4. You are provided with plants F and G which are common crops.	
a) i) Examine them and describe how they differ.	(03 marks)
	•••••
•••••••••••••••••••••••••••••••••••••••	•••••
	•••••
	• • • • • • • • • • • • • • • • • • • •
	• • • • • • • • • • • • • • • • • • • •
	•••••
ii) Using the features in (i) above, identify the botanical fami	
which each belongs.	(01 mark)
F	
•••••••••••••••••••••••••••••••••••••••	•••••
G	
b) With the aid suitable feature(s), explain how each can hel	_
conservation.	(03 marks)
F	
	•••••
G	
	• • • • • • • • • • • • • • • • • • • •

c) With the aid of explanations, which crop would you intercrop in a garden of banana? (03 marks)
5. You are provided with specimens H , I , J , K , L , M and N which are used to establish a farm structure.
a) Describe how the specimens can be used to establish a cattle crush. $(03\frac{1}{2} \text{ marks})$
•••••••••••••••••••••••••••••••••••••••
b) Explain how the design of specimen J and M suit their functions. (02 marks)

c) A farmer wishes to establish a crush that can handle 8 cattle at ago. If the space requirement per animal is 1.5m, and the spacing between specimen I is 1.5m, Calculate the quantity of specimen I that he will need. (02 marks)
d) Measure and record the length of H . If 3 horizontal rows of H are to be put, how many pieces of H will the farmer use? (02½ marks)

END