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PRINCIPLES AND PRACTICES
OF AGRICULTURE
PAPER 2
June/July 2022
2 hours

MWALIMU EXAMINATIONS BUREAU

UCE RESOURCE MOCK EXAMINATIONS 2022

PRINCIPLES AND PRACTICES OF AGRICULTURE

PAPER 2

TIME: 2 HOURS

INSTRUCTIONS:

Attempt all questions in the spaces given in this booklet.

No extra answer sheets will be provided.

1a) Specimen J, K and L are parts of an engine system. To	which system of an engine do they
belong?	(1 ½ marks)
b) Describe how each specimen functions in the systems yo	
J	
K	
L	

c) Observe specimen L and give how it's adapted to its function	(4 marks)
d) Outline 3 ways of ensuring that specimen L functions efficiently	(1 ½ marks)
2a) specimen A, B and C are different milk products which are ready for consum	ption. Carry out
the tests required following the questions below	
a) Observe them and state their conditions	(1 ½ mark)
A	•••••
В	
C	
b) Using a lactometer measure and write down the specific gravity of the specime	en (1 ½ marks)
A	
В	
C	
c) From your observation, state the causes for the difference in specific gravity	(3 marks)
A	
В	
C	• • • • • • • • • • • • • • • • • • • •

d) How can a farmer produce high quality specimen C on the farm	(4 marks)
i)	
ii)	
iii)	
iv)	
3a) You are provided with the following which are agriculture chemicals. Observ	e them and
describe their nature.	(3 marks)
D	
Е	
F	•••••
b) Measure 3 spatular of each specimen and put t hem in a test tube. Add 10 cm ³	of water and
shake it for only 35 seconds. State your observations.	(3 marks)
D	
Е	
	• • • • • • • • • • • • • • • • • • • •
F	
c) At what stage should specimen D be applied in the garden and give a reason	(1 mark)
Stage	
Reason	•••••
d) Outline reasons why specimen D should be applied to maize plant.	(3 marks)
i)	
ii)	
iii)	

4a) you are provided with the following specimens. Observe them and state ho as a weed.	w they are adapted (3 marks)
Gi)	
ii)	
Hi)	
ii)	
Ii)	
ii)	
b) Describe how specimen G can be controlled mechanically.	(4 marks)
c) Give ways in which the specimens affect crop production	(3 marks)
i)	• • • • • • • • • • • • • • • • • • • •
ii)	
iii)	
iv)	
5a. You are provided with specimen X and Y give its characteristics.	(1 ½ marks)
Yi)	
ii)	• • • • • • • • • • • • • • • • • • • •
iii)	
b) Measure 50 cm ³ of specimen X and pour it in a measuring cylinder. Measur and add it to the soil. Mix them thoroughly and leave them to settle. Record the	

final mixture and record the results in the table below. Repeat the above procedure to soil sample Y (3 marks)

Specimen	Vol of water (cm ³)	Vol of soil (cm ³)	Vol of final mixture (cm ³)
X			
Y			

b) From the results, calculate the percentage of air in (4 marks)
X
Y
c) Give the reasons for the differences in percentage of air in the above specimen. (1 ½ marks)
i)
ii)
;;;)

End