Name	INDEXNO
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PRINCIPLES AND	
PRACTICES OF AGRICULTURE	
PAPER 2	
PRACTICAL PAPER	
2023	
2 HOURS	



# **BUSIIKA MUSLIM SECONDARY SCHOOL**

### Uganda Lower Secondary Curriculum END OF YEAR EXAMS 2023 PRINCIPLES AND PRACTICES OF AGRICULTURE (PRACTICAL)

Paper 2

S.3

#### 2 hours

### **INSTRUCTIONS**;

Answer all questions in this paper All answers must be written in spaces provided

For Examiner's Use only		
Question	Marks	Examiner's Signature and Number
Total	<u>,                                      </u>	·



1.(a). You are provided with specimen **A** and **B** which are soil samples. Carryout tests on the specimen following the procedure provided.

Label two measuring cylinders as A and B.

Put specimen  $\bf A$  in the measuring cylinder labeled A, while tapping the bottom of the cylinder gently to compact the soil being added until it reaches as volume of  $20 \text{cm}^3$ .

Repeat the procedure as you put specimen 'B' into the measuring cylinder, now add 50cm<sup>3</sup> of water into each measuring cylinder stir each thoroughly using a glass rod and leave it to stand for 15 minutes.'

(a) After 15 minutes; record the volume of contents in each measuring



cylinder.

(c). Using the results from your tests in (a) and observations in (b); State the type of the soil each specimen is ;giving a reason for your answer. (03 marks)
A
В
(d). (i) Which of the above specimen is NOT suitable for crop growth? ( $\frac{1}{2}$ mark)
(ii). Suggest three ways of improving the specimen you have given in (d)(i)( $1\frac{1}{2}$ mark)
2. You are provided with specimens <b>P</b> , <b>Q</b> , <b>R</b> , and <b>S</b> which are workshop tools.
(a) (i) Observe them critically and identify the specimens. (02mark)
P
Q
R
S



(b) In table below, state the function of each specimen in the construction of a feed trough. (04marks)

Specimen	Description of function of the specimen
P	
Q	
R	
K	
S	
	e measures that should be taken to keep each of the specimens
P and Q in	good working conditions.
r	(02 marks)
•••••	
-	
Q	(02 marks)



3. Specimen <b>C</b> , <b>D</b> , <b>E F</b> and <b>G</b> are part of digestive system of ruminant animal.
(a) Observe and arrange the specimens in order the food passes through them
during digestion.
1
( $02\frac{1}{2}$ marks)
b) Describe the structural appearance of each specimen
C
D
E
<b>F</b>
G
1



(c).State the function of each specimen.	
<b>c</b>	
D	
<b>E</b>	
F	
	(05 marks)
4. Specimens ${f I},{f J}$ and ${f K}$ are used in soil amendments. Example 1.	nine them carefully and use
them to answer the questions that follow.	
a) Describe the characteristics of each specimen.	( 03 marks)
a) Describe the characteristics of each specimen.	( 03 marks)
I	,
· -	······································
I	
I	
I	
J	
J	
J	
J  K	
J  K	vantages of using specimen <b>J</b>
J  K	vantages of using specimen <b>J</b>
J  K	vantages of using specimen <b>J</b>
J  K	vantages of using specimen <b>J</b>



(c). Measure 2 spatulafuls of specimen <b>I</b> and	pour it in a boiling tube/ test tube. Add
5cm³ of water and shake it vigorously for 1 r	ninute and record your observations in the
table below. Repeat the procedure with ${\bf J}$ an	d record your observations in the table
provided.	(02 marks)

Specimen	Observation.	Conclusion
I		
T		
J		

(d). Basing on your results in (c) above, suggest the best method of a	applying the
specimens above in a crop field. Give a reason for your answer.	(03 marks)
I	
Method of application.	
Reason.	
J	
Method of application.	
Reason.	



5. Specimen ${\bf Z}$ is a crop plant. U	Jse it to answer the ques	stions that follow.
(a) (i) State the family to which	h the specimen belongs.	(01 mark)
('') 01	.1 . 1 1	1 (04 1)
(ii).Observe the root system of t	the specimen and record	your observation. (04 marks)
(h) Rosing on the observation is	n (a) (ii) ahaye suggest ti	he functions of the features to the
specimen.	(04 r	narks)
	•••••	
(1) Olympia (1) 1 - Colored (2)	. (.1)	
(d). Observe the leaf structure of	of the specimen and give	e reasons why it should be
included in the cropping progra	amme.	(01 marks)
		• • • • • • • • • • • • • • • • • • • •

# \*\*END\*\*





Pounded dry clay soil A Pounded dry loam soil B

Reticulum C
Omasum D
Rumen E

Illeum (small intestine) F

Abomasum G

Single super phosphate (SSP) I

Well decomposed farm yard manure with enough moisture. J

Urea/CAN/ sulphate of ammonia fertilizer. **K** 

Jack plane P
Cross cut saw Q
Claw hammer R
Mallet S

A whole maize plant, bean /soya bean plant with pods.  ${\bf Z}$ 

