UNEB U.C.E AGRICULTURE PRACTICAL (PAPER 2) 2007

1. Specimen **A, B, C** and **D** are used in building construction.

a) Identify the specimens.

A.....

B.....

C.....

D.....

b) Describe how each specimen is used in building construction.

i) **A**.....

ii) **B**.....

iii) **C**.....

iv) **D**.....

2. Specimen $\mathbf{K_1}$ and $\mathbf{K_2}$ are parts of a farm tractor engine

a) Identify the specimens

$\mathbf{K_1}$.....

$\mathbf{K_2}$.....

b) To which system of the tractor do specimen $\mathbf{K_1}$ and $\mathbf{K_2}$ belong?

c) (i) Examine the specimens and state one operational difference between them

(ii) Suggest conditions under which each specimen is most suitable for use. Give reasons.

d) Suggest three maintenance practices that should be carried out on specimen $\mathbf{K_1}$.

3. You are provided with specimens **M** and **N**.

Measure 30 cm^3 of **M** using a measuring cylinder. Add 30 cm^3 of water to the sample and stir the mixture using a glass rod. Repeat the procedure using specimen **N** in another measuring cylinder. Allow the mixtures to settle for 30 minutes. (you may proceed with other work in the meantime.)

a) After 30 minutes, draw and label diagrams of the two measuring cylinders with their contents

b) State the difference between the two mixtures in the measuring cylinders.

c) From your observations, state the type of soil each sample is.

4. You are provided with specimens **R, S** and **T.**

a) Identify specimen **R**.

b) (i) Fit **T** and **R** and operate the equipment. Describe how the liquid comes out.

(ii) Now replace specimen **T** with **S** and operate the equipment. Describe how the liquid comes out.

c) (i)Compare the output of the equipment when using **S** with that when using **T.**

(ii) From your observation, suggest the task that each specimen is used for. Give reasons for your answer.

S.....

T.....

d) State two common faults that occur in specimen **R.**

5. Specimen $\mathbf{X_1}$ and $\mathbf{X_2}$ are domestic fowls.

a) Carry out the activities suggested in the table on the specimens and record your observations.

Activity	Observation	
	Specimen X_1	Specimen X_2
Tap the specimen lightly on the back.		
Observe the comb and wattle.		
Examine the cloaca.		
feel the abdomen using your fingers.		
Place 2 - 3 fingers between the pelvic bones.		

b) What conclusion can you make on the reproductive state of each specimen?

c) Suggest four factors that could have led to the condition of specimen $\mathbf{X_2}$.