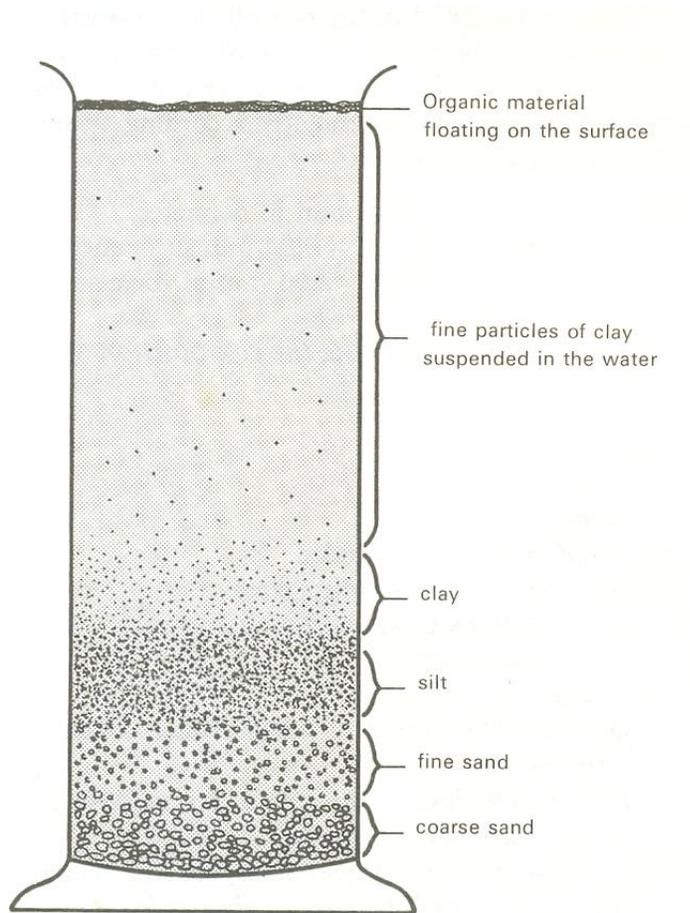


## S.2 AGRICULTURE HOLIDAY WORK

### TERM I 2013

1.(a) The diagram below is a simple analysis of \_\_\_\_\_  
\_\_\_\_\_



(b) coarse sand particles settled down almost immediately the measuring cylinder was put down after vigorous shaking because they are \_\_\_\_\_

(c) Clay particles still suspended in the water caused the water to be \_\_\_\_\_

(d) Soil from the subsoil layer would have a smaller layer of \_\_\_\_\_ in the cylinder than soil from the top soil.

(e) One major component of soil that is not obviously seen in this cylinder is \_\_\_\_\_

2.(a) Mechanical disintegration of rocks without any change in their chemical composition is known as \_\_\_\_\_ weathering.

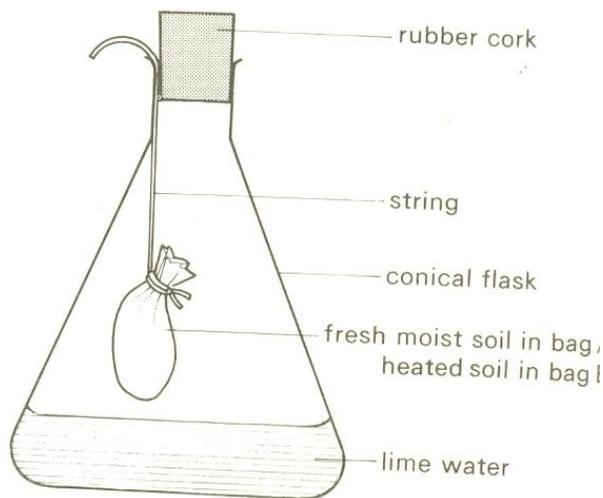
(b) \_\_\_\_\_ weathering that results from heating and cooling of the surface of the rock causing layers to peel off.

(c) \_\_\_\_\_ are examples of soil organisms that are early colonisers of rocks.

(d) \_\_\_\_\_ animals establish channels in the soil that will let in air and increase rate of chemical weathering.

(e) \_\_\_\_\_ is one of the factors that affect soil formation since it is a slow but continuous process.

3.(a) The diagram below is of an experiment to investigate \_\_\_\_\_ .



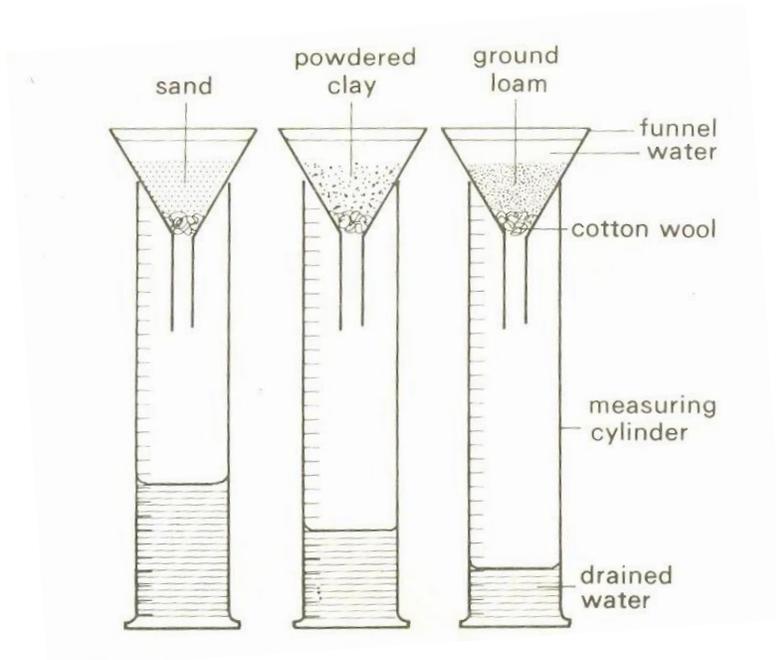
(b) Lime water was used in the experiment to detect \_\_\_\_\_ given out.

(c) The outside environment cannot interfere with the results of the experiment since the flask was \_\_\_\_\_.

(d) One importance of the property being investigated in this experiment is to supply soil\_\_\_\_\_.

(e) The soil was prevented from dropping in the water and interfering with observations by using a \_\_\_\_\_.

4.(a) The experiment in the diagram can be used to investigate both soil \_\_\_\_\_ and soil \_\_\_\_\_



(b) The differences in the results with the three different types of soil is due to \_\_\_\_\_ between soil particles.

(c) In practical farming, the soil that has the least water in the measuring cylinder would have a problem of \_\_\_\_\_.

(d) Sand soil can hold more water when \_\_\_\_\_ is added to it.

(e) To improve on the properties being investigated clay soil can be \_\_\_\_\_ before being used for crop production.

5.(a) After a heavy storm, the soil becomes more acidic due to \_\_\_\_\_  
or \_\_\_\_\_ acid.

(b) Leaching of nutrients from the soil is more common in strongly acidic or strongly alkaline soils \_\_\_\_\_

(c) Three effects of agriculture lime are;

\_\_\_\_\_

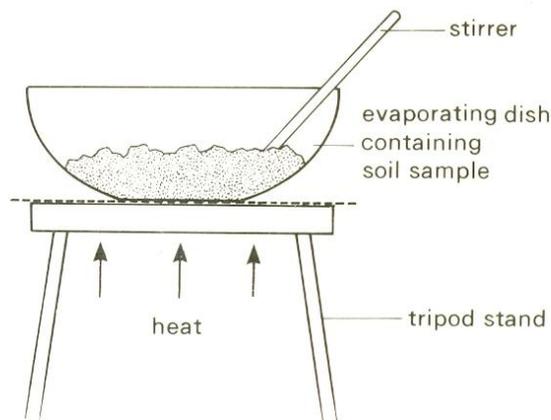
\_\_\_\_\_

\_\_\_\_\_

(d) The sulphur in the soil is likely to lead to acidic soils if the soil with high levels of \_\_\_\_\_ is cultivated.

(e) Granite rocks have high levels of \_\_\_\_\_ that can undergo several reactions to make the soil acidic

6.(a) What were the students trying to investigate in the diagram below \_\_\_\_\_



(b) Why is it necessary to keep stirring during the experiment?

\_\_\_\_\_

(c) The soil can be cooled in a \_\_\_\_\_ so that it doesn't regain \_\_\_\_\_ from the atmosphere.

(d) Plants keep cool when it is very hot through a process known as \_\_\_\_\_.

(e) The mass of substance lost during the experiment can be determined by subtracting mass of evaporating dish and dry soil from \_\_\_\_\_ .