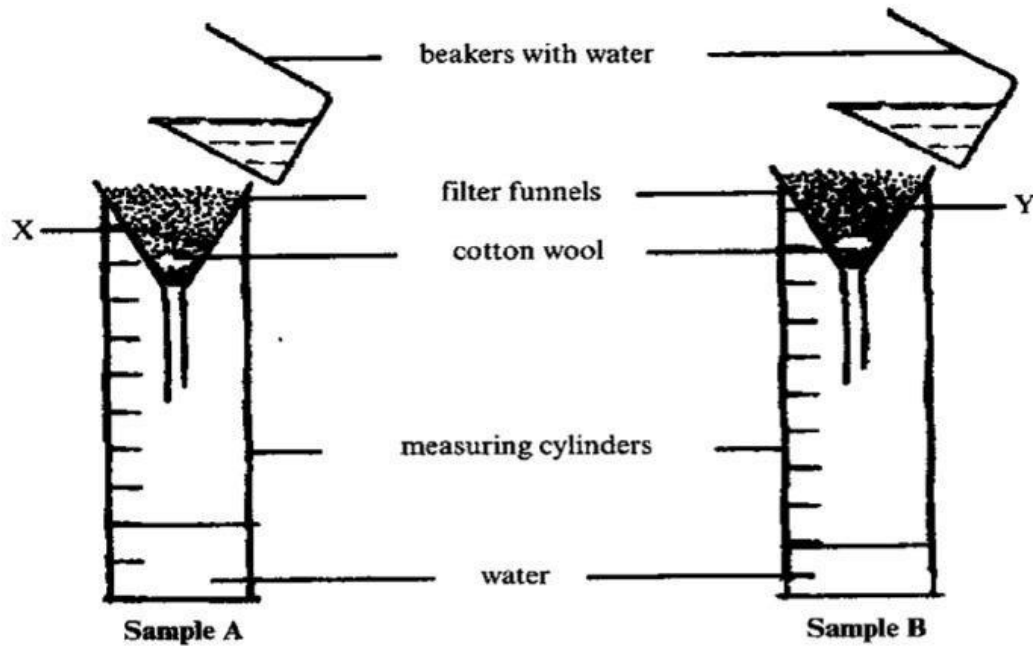


Name: _____

Date: _____

A student investigating soils, sets up this experiment to compare the drainage of two soil samples.



- (a) Identify the soil sample that will drain (i) quickly, (ii) slowly. [1]
- (i) quickly _____ [1]
- (ii) slowly _____ [1]
- (b) Give a reason why one soil sample drains faster than the other soil sample. [1]
- _____ [1]
- (c) Water is poured into a beaker containing a sample of soil. [2]
- (i) State what is observed as the water is absorbed into the soil sample and suggest a possible reason for this observation. [2]
- observation _____
- reason _____ [2]
- The mixture of soil and water is stirred and allowed to settle.
- (ii) Identify the part of the soil which will float on top of the water; [1]
- _____ [1]
- settle at the bottom of the beaker. [1]
- _____ [1]

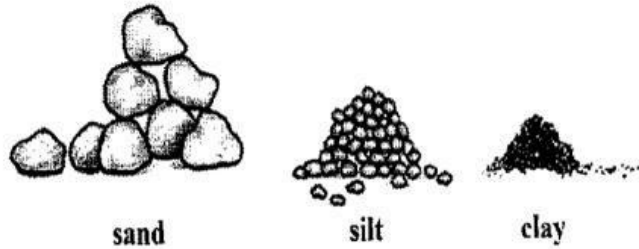
Name: _____

Date: _____

This question is soil, fertilizers and natural cycle.

a. Name the process by which soil is formed from bedrock (1)

b. The diagram shows three different kinds of soil. Identify the type of soil in which water drains (2)



I. Rapidly, poor water storage; _____

II. Slowly, good water storage; _____

c. A fertilizer is applied to soils to supply nutrients essential for the growth of plants.

I. Name the Two kinds of fertilizers. (2)




i. _____

ii. _____

d. Name the kind of fertilizers which can leech from the soil into rivers and lakes to cause water pollution. (1)

e. State one harmful effect of water pollution on living organism.(1)

f. The label shows the symbols for three elements (chemicals) and their results on main structure of the plant.(3)

| label with symbols and results | name of elements |
|---|------------------|
| Green Foliage N  | _____ |
| Strong Roots P  | _____ |
| Healthy Growth K  | _____ |

[3]