

RISHIKUL SANATAN COLLEGE

AGRICULTURE SCIENCE

YEAR 9 WORKSHEET- SOIL

1. The soil which results from a combination of **equal** proportions of sand and clay is known as
 - A. silt.
 - B. loam.
 - C. silty loam.
 - D. sandy loam.
2. The percentage of **organic materials** found in an ideal soil is
 - A. 5.
 - B. 15
 - C. 25
 - D. 45
3. Given below are the instructions of an experiment to be followed by the students during an agricultural class.

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|---|
| <ol style="list-style-type: none">1. Wash out an empty soft drink bottle or jar.2. Fill softened soil into it up to the $\frac{1}{4}$ full mark.3. Add tap water and shake the bottle vigorously.4. Leave the contents of the bottle to settle before observing the result. |
|---|

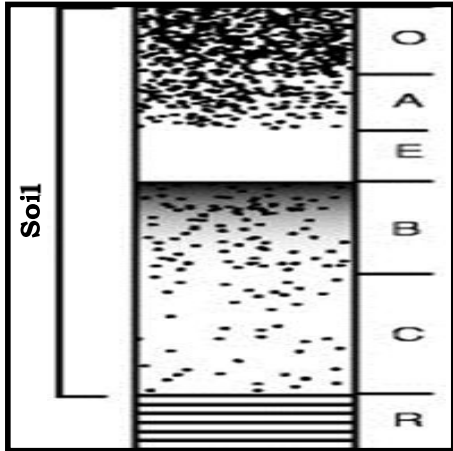
Source: *Year 9 Agricultural Science Textbook*

What could be concluded at the end of this experiment?

- A. Inorganic material settled according to shape
- B. Inorganic material settled according to sizes.
- C. Organic material settled according to shape.
- D. Organic material settled according to sizes.

The diagram below illustrates a soil profile.

Use the diagram to answer **Questions 4 and 5**.



Source: www.researchgate.net

4. The horizon of the soil profile which contains a lot of organic matter is
- R
 - C
 - E
 - O
5. Another name for the B horizon of a soil profile is
- topsoil.
 - subsoil.
 - regolith.
 - bedrock.
6. The factor that affects the **speed** and amount of weathering of rocks is
- time.
 - topography.
 - parent material.
 - rainfall and water.
7. The number of nutrients that plants need to grow and be productive is
- 13.
 - 15.
 - 16.
 - 20

Given below are the instructions of an experiment to be followed by students during an agricultural class.

1. Place soil in the bottom of the jar up to the $\frac{1}{4}$ full mark.
2. Place an open container of limewater in the jar so that it rests on top of the soil.
3. Close the jar lid tightly and leave the contents undisturbed for three days before observing the limewater.

Source: *Agricultural Science for Year 9*

8. The aim of the experiment above is to find out if soil contains
 - A. air.
 - B. water.
 - C. micro-organisms.
 - D. inorganic material.

9. The horizon of the soil profile which has a significant **loss** of minerals is
 - A. C.
 - B. E.
 - C. O
 - D. R

10. The surface of the earth's crust which is covered in a soft layer of material is called
 - A. soil.
 - B. rock.
 - C. fossil.
 - D. dry matter.