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chapter soil about Worksheet الملف

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SCIENCE-SOIL
CHAPTER TEST

1) A student studies that the soil is a life support system for most living things. Which of these statements explains the importance of soil?

- (a) birds to fly
- (b) grass to grow
- (c) fishes to swim
- (d) humans to drink

2) Which problem is likely to be observed if soil ceases to exist on the earth's surface?

- (a) No shelter for flies such as bees
- (b) Flow of water in river would be reduced
- (c) No shelter for organisms such as earthworms
- (d) Flow of air in the atmosphere would be stopped

3) A student observed a soil sample which is composed mostly of aggregations of rock fragments in it. Which component of the soil is the student referring to?

- (a) Clay
- (b) Gravel
- (c) Humus

(d) Sand

4) A student studies that the top layer of soil is called humus and is highly nutritious. Which of these is a characteristic of humus?

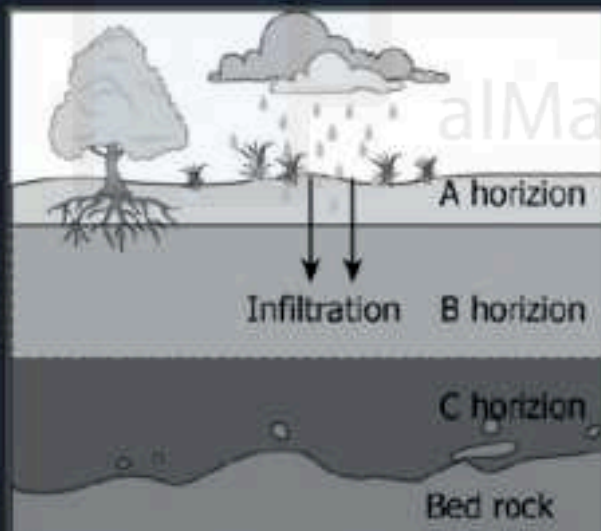
(a) Coarse grained soil

(b) Rotting dead matter

(c) Very fine-grained soil

(d) Aggregation of rocks pieces

5) The given image represents a soil profile.



Which layer of soil from the soil profile is likely to have small lumps of rocks?

(a) A-horizon

(b) Bedrock

(c) B-horizon

(d) C-horizon

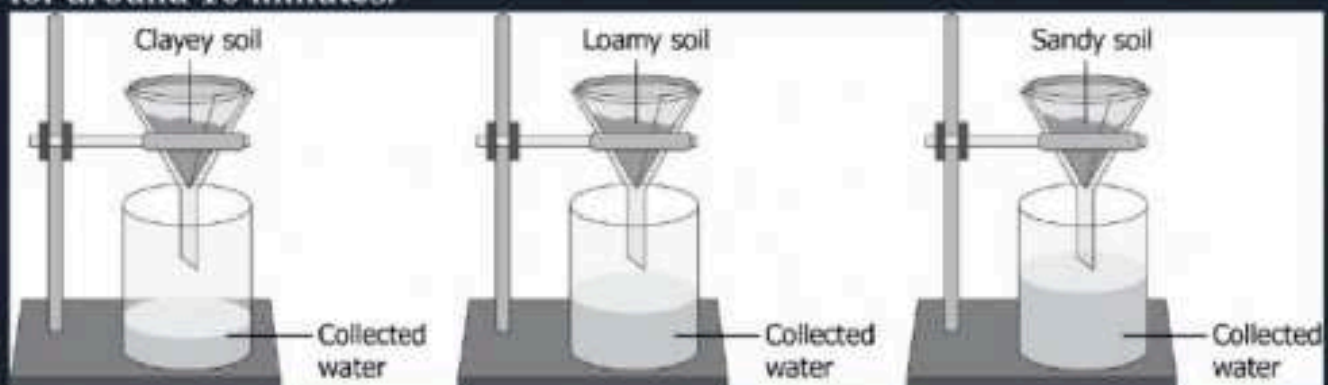
6) Which of these options correctly describes the layer of the soil profile?

- (a) A-horizon-hardest layer
- (b) C-horizon-highest amount of humus
- (c) B-horizon-lesser humus but more minerals
- (d) Bedrock-porous and can retain maximum water

7) Which of these statements describes the characteristics of the soil type?

- (a) Sandy soil-a greater proportion of fine particles
- (b) Loamy soil-a greater proportion of fine particles
- (c) Loamy soil-equal proportion of big and fine particles
- (d) Sandy soil-equal proportion of big and fine particles

8) A student arranged to understand percolation rate of different types of soil as shown. He poured equal amount of water in all three of them and waited for around 10 minutes.



Which of these explains the rate of percolation of the soil?

- (a) sandy soil has the highest rate of percolation as water passes fastest through it
- (b) clayey soil has the highest rate of percolation as water passes slowest through it

(c) clayey soil has the highest rate of percolation as it both retains and allows water to pass through

(d) loamy soil has the highest rate of percolation as it both retains and allows water to pass through

9) A student performs an experiment to measure a soil's percolation rate. Through the soil sample, she allowed 500 mL of water to percolate. She noticed it took about 20 minutes for the water to pass. What is the rate of water percolation in the soil?

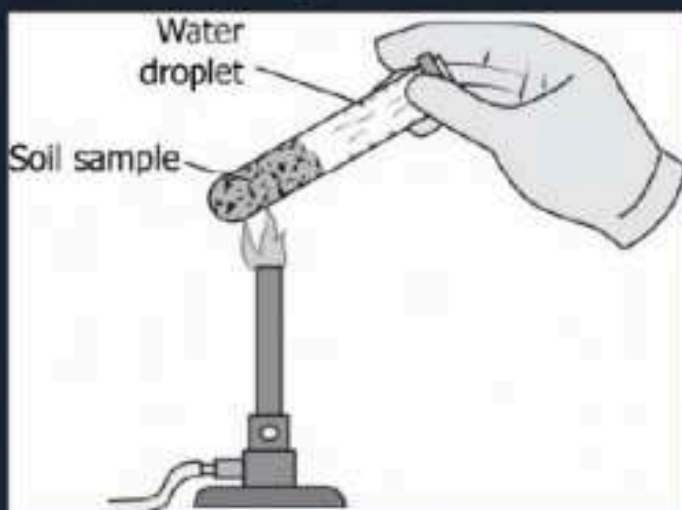
(a) 0.04 mL/min

(b) 25 mL/min

(c) 100 mL/min

(d) 10000 mL/min.

10) A student took some sample in a test tube and placed it over a burner as shown in the image.

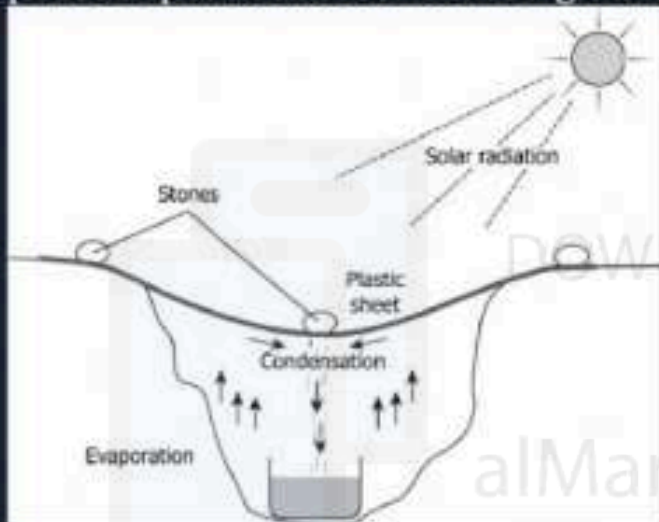


The student noticed that some water droplets were collected on the inner surface of the test tube. What does the accumulation of water droplet suggest?

(a) Soil contains moisture

- (b) Air is present around us
- (c) Water is present in the air
- (d) Heating produces water droplets

11) A student performed an activity where he digs a soil pit on the ground. He placed a plastic sheet and arranged as shown in the image.



The student noticed that water vapours condensed on the plastic sheet which then collected in the container. What can be concluded from the activity?

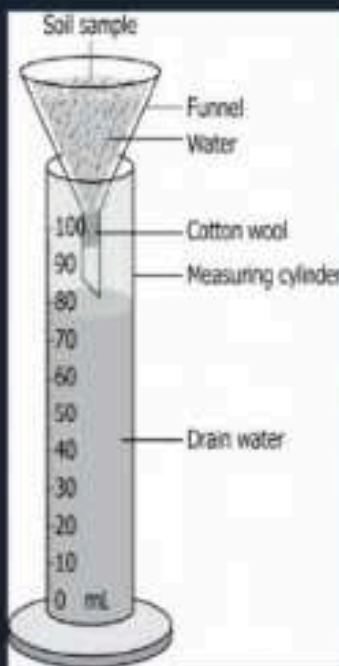
- (a) Moisture is contained in the soil
- (b) Plastic sheet helps to enhance evaporation
- (c) Condensation occurs only on a plastic surface
- (d) Condensation occurs in the presence of sunlight

12) Student performed an activity where she took some soil sample in a funnel and placed it in over a beaker as shown in the image. Further, she used a dropper to add some water to the soil.



She noticed that the water was not collected in the beaker. What likely caused the water droplets to vanish?

- (a) Evaporation by the wind
- (b) Condensation by the soil
- (c) Absorption of water by the soil
- (d) Percolation of the water through the soil.









13) A student conducts an experiment for measuring the amount of water that a soil sample absorbs. He pours 90 mL of water on a 50gm soil sample. The amount of water drained in the cylinder after around 15 mins is observed to be about 80 mL as seen. What percentage of the water is absorbed by the soil?

- (a) 0.2
- (b) 5
- (c) 20
- (d) 67

14) Student studies that soil rich in clay is ideal for paddy. What makes clay soil ideal for the cultivation of paddy?

- (a) The ability of the soil to mould
- (b) Good water retention capability
- (c) The ability to percolate more water
- (d) Good capacity to produce freshwater

15) A student does an activity to research which soil type is best for gram and rice plantation. She planted seedlings from both plants in different soil types and took good care of all the plants for about a month. She recorded the development of the plants as shown in the table.

	After 1 month		
Rice			
Gram			
	Sandy	Loamy	Clayey

Which of these statements supports the performed activity?

- (a) Gram and rice are most suitable for sandy soil
- (b) Gram and rice are most suitable for clayey soil
- (c) Neither gram nor rice is suitable for loamy soil
- (d) Gram is suitable for clayey soil whereas rice is suitable for sandy soil

16) Which of these activities are likely to cause soil pollution?

- (a) Excess use of fertilizers - Loss of topsoil
- (b) Deforestation - Contamination of nearby lakes

(c) Dumping of chemicals in soil - Reduce in the amount of rainfall

(d) Dumping of polythene bags in soil - Release of harmful chemicals

17) A student studies that soil pollution has harmful effects. Which effect is likely to be observed due to soil pollution?

(a) Causes the soil to erode easily

(b) Kills organism living on the soil

(c) Increases the fertility of the soil

(d) Causes soil to retain more water

18) Fungi and bacteria grow mostly in which layer of soil?

A) Subsoil

B) Top soil

C) Bed rock

D) All the above

19) In which of the following processes land surface is removed by water, wind or ice?

A) Soil seepage

B) Soil sewage

C) Soil erosion

D) Soil weathering

20) Which of the following are the constituents of soil?

- A) Air, and water only.
- B) Water, fragmented rocks and plants only.
- C) Fragmented rocks, Minerals, organic matter, air and water.
- D) Fragmented rocks, Water, air and plants only.



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