

SOIL

Subtopic: Properties of soil and percolation rate of water.

Section 1

1 Mark T for True or F for False.

1 a. Checking moisture content is one of the property of soil.

1 b. The water just flows on the unpaved road.

2 Choose the correct answer.

Which of the following statements are true?

- a) Be careful while pouring water inside the pipe.
- b) Percolation rate differs in different types of soil.
- c) Both a and b.
- d) None of the above.

Section 2

3 Fill in the blanks.

The unit of percolation rate is _____.

4 Match the following

4 a. highest percolation rate - Clayey soil

4 b. lowest percolation rate - Sandy soil.

Section 3

Answer the questions in brief.

5. List the characteristics of the soil.

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6. How will you calculate the percolation rate of the soil?

7. For a certain sample, it took 20 minutes for 200mL to percolate. What is the percolation rate?

8. For a certain sample, it took 30 minutes for 1000L to percolate. What is the percolation rate?

Section 4

Answer the questions in detail.

9. How will you measure the rate of percolation in the soil? Explain in detail with a neat diagram and examples.

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10 a. Razia conducted an experiment in the field related to the rate of percolation. She observed that it took 40 min for 200 mL of water to percolate through the soil sample. Calculate the rate of percolation.

b. Compare the percolation rate in different types of soil. Give reasons.
