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Chapter - 13

WATER

New words

1. sedimentation
2. decantation
3. filtration
4. soluble
5. insoluble
6. water table
7. potassium permagnate (permanganate)
8. impurities

* Define the following -

1) Sedimentation - The process of settling down of insoluble impurities in water known as sedimentation.

2) Decantation - The process of separating clean water from sediments without disturbing it is called decantation.

3) Filtration - The process of purifying liquid by using a filter paper or filters are called filtration.

4) Water table - The level of water under the ground is called water table.

A Answer the following Questions -

Q1. What is safe water? Give two points.

Ans- • Water that is clean and free from germs, and impurities is known as safe water.
• It is safe for drinking.

Q2. What impurities can be present in water?

Ans- Impurities that can be present in water are-

1) Soluble impurities - Some materials like minerals and salt dissolve in water. They can not be seen. These are soluble impurities.

2) Insoluble impurities - Some materials like mud, hay and stones can be seen in water. These are called insoluble impurities.

Q3. How can you make muddy water from a river safe for drinking?

Ans- We can make muddy water safe for drinking by using different methods-

1. We can make muddy water clean by sedimentation, decantation and filtration.

2. To kill the germs from water, it is necessary to boil the water.

3. Chemicals like potassium permanganate can be put into water to kill the germs present in water.

Q4. How does the underground water get filtered?

Ans- The underground water gets filtered naturally when it passes through soil beds and the layers of porous rock in the Earth. The underground water is clean and safe for drinking.

Q5. What are the ways of making water germ free?

Ans- Some ways to make water germ free are -

1. Boiling - Boil the water for atleast 20 minutes to kill the germs.
2. Adding potassium permanganate
3. Adding chlorine tablets

Q6. Muddy water is made clean by decantation or filtration. Is it safe for drinking? Give your reasons.

Ans- No, muddy water that is made clean by decantation or filtration is not safe for drinking. Because clean water is not always fit for drinking. It may still have germs in it.

Give Reason for the following -

Q1. We need to purify water before drinking it. Why?

Ans- We need to purify water before drinking it because it may contain germs that cause diseases.

Q2. Water from a tube-well safe to drink. Give reason.

Ans- Because water from a tube-well comes from deep underground where it gets filtered naturally when it passes through soil beds and layers of porous rocks in Earth.

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Mind Map

Types of Impurities in waters

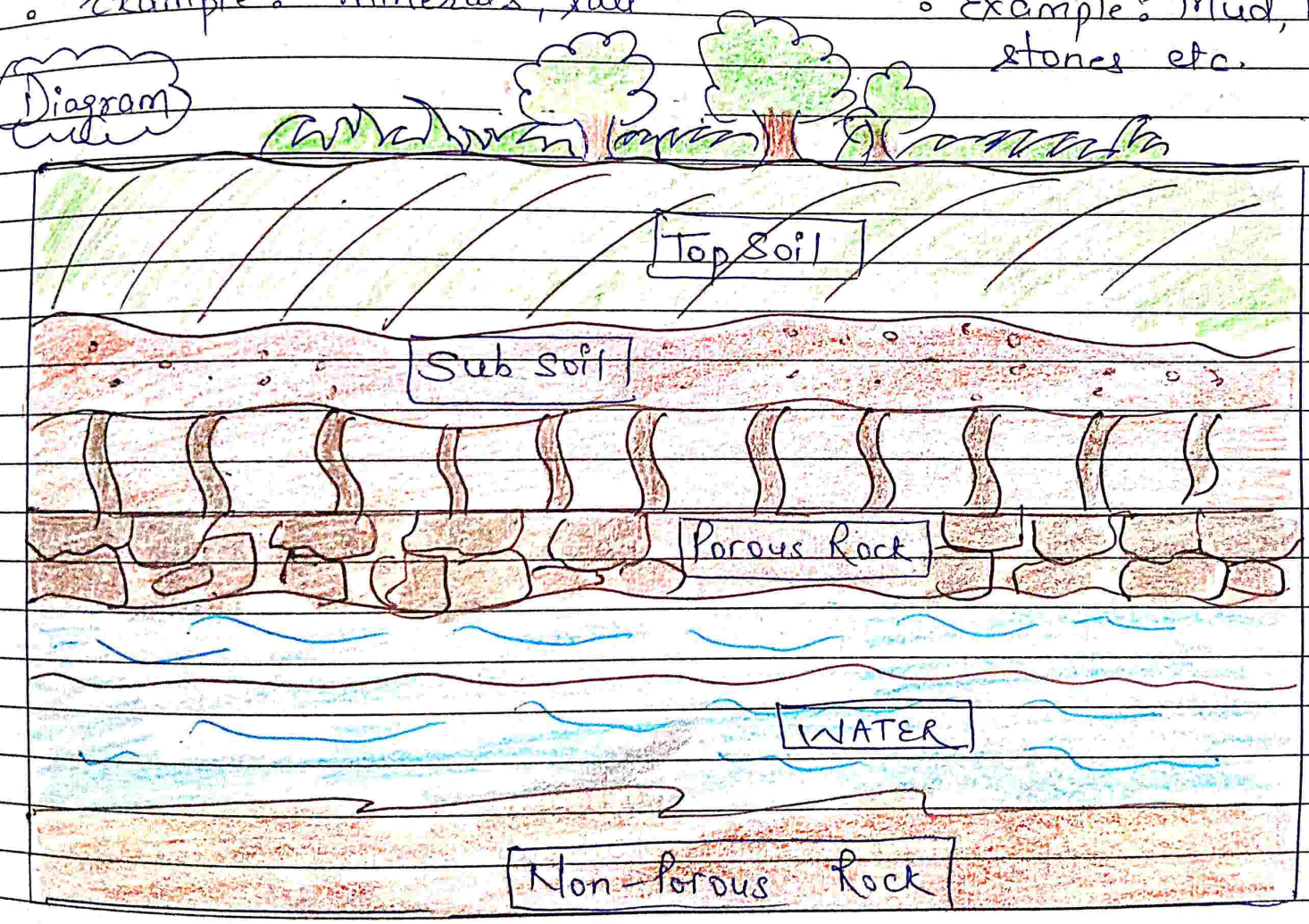
Soluble impurities

- Cannot be seen
- Example: minerals, salt

Insoluble Impurities

- Can be seen
- Example: Mud, hay, stones etc.

Diagram



Underground Water

Work Time

A. Match the causes with its effects.

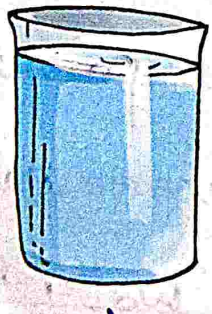
Causes	Effects
1. Filtration through soil beds	a. Low water table
2. Decantation	b. Settling of impurities
3. Sedimentation	c. Killing of germs
4. Non-porous rocks at great depth	d. Pure underground water
5. Boiling	e. Pour water in another vessel

Ans.
1. d.
2. e
3. b
4. a.
5. c

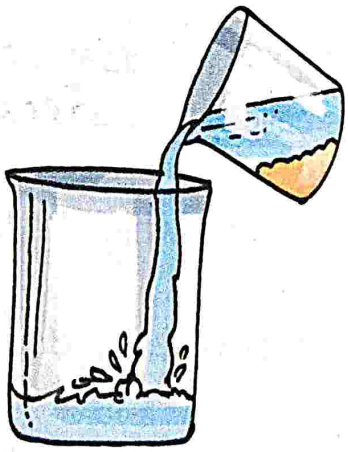
B. Fill in the blanks.

1. Impurities which can dissolve in water are soluble impurities.
2. Impurities which cannot dissolve in water are insoluble impurities
3. Settling down of heavy insoluble impurities is sedimentation.
4. Pouring the clean water into another vessel after the dirt has settled down is called decantation.
5. The rocks which let the water pass through are porous rocks.
6. The rocks which do not let the water pass through are non-porous rocks
7. The level of water under the ground is called water table.

E. Label the following diagrams and write the name of the processes:



PROCESS: sedimentation



PROCESS: decantation