

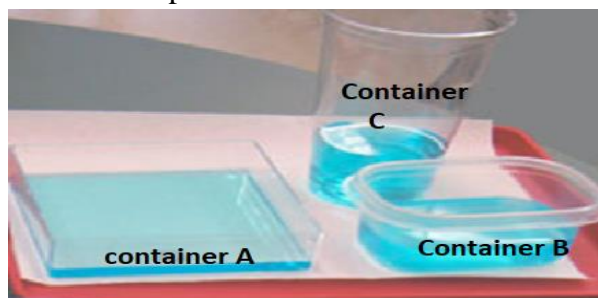


INDIAN SCHOOL AL WADI AL KABIR

Class: VI	DEPARTMENT OF SCIENCE- 2020-2021	Date: 20.12.2020
Worksheet No.: 13 WITH ANSWERS	Topic: WATER	Note: A4 FILE FORMAT
NAME OF THE STUDENT:	CLASS & SEC:	ROLL NO.:

I. OBJECTIVE TYPE QUESTIONS

- Water cycle is a _____
 - continuous process
 - drinking process
 - non-continuous process
 - non-cyclic process
- How much percentage of our body is made up of water?
 - 50%
 - 70%
 - 55%
 - 85%
- Which of the following is not a fresh water source?
 - Lake
 - Spring
 - Well
 - Sea
- The dumping of waste in water is known as _____
 - water conservation
 - water pollution
 - water preservation
 - water resources
- Cloud seeding is a technique that induces rain. What does the process involve?
 - adopting an agricultural practice that depends on clouds.
 - introducing particles in clouds to facilitate condensation.
 - making clouds and placing them in the sky.
 - scattering clouds to form seed like structures.
- Given in the figure are three containers that contain the same amount of water. In which of the following containers will water evaporate the slowest?



- a. Container A
- b. Container B
- c. Container C
- d. Both container A and B

7. Water is available on the surface of earth in the form of oceans, seas, rivers, ponds, etc. Approximately how much of the earth is covered with water?

- a. 1/3 part
- b. 2/3 part
- c. 1/2-part
- d. 1/4 part

For the following questions, two statements are given- one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (i), (ii), (iii) and (iv) as given below-

- i) Both A and R are true and R is correct explanation of the assertion.*
- ii) Both A and R are true but R is not the correct explanation of the assertion.*
- iii) A is true but R is false.*
- iv) A is false but R is true*

8. Assertion (A): The sea water is saline.

Reason (R): The sea water contains many dissolved salts.

- (i) Both A and R are true and R is correct explanation of the assertion.

9. Assertion (A): Role of oceans in supplying useable water is quite important.

Reason (R): When the sea water reaches us, in various other forms of sources of water, it is no more saline.

- (i) Both A and R are true and R is correct explanation of the assertion.

10. Assertion (A): During drought there is a shortage of food and fodder.

Reason (R): Droughts result in conservation of water.

- (ii) A is true but R is false.

II. BASIC CONCEPT LEVEL QUESTIONS

1. What is glacier? [Hint: A glacier is a persistent body of dense ice that is constantly moving under its own weight. The rivers get their water from the melting of these glaciers.]

2. Why is water important for us? [Hint: i. Water regulates body temperature by the process of respiration and evaporation.

ii. All metabolic reactions in the body take place in aqueous medium.

iii. It transports minerals and food materials in plant's and animal's body.]

3. What is water cycle? [Hint: Water constantly moves from the earth to the air and back again. The constant circulation of water is known as the water cycle.]

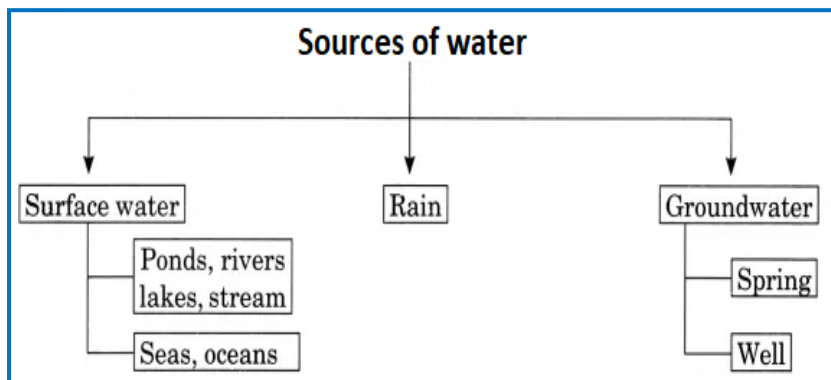
4. What is precipitation? [Hint: When water drops come together in the air, it becomes heavy and begin to fall. Falling of water drops is called precipitation.]

5. Mention any two factors which are leading to shortage of water around the world.
[Hint: overpopulation and industrial growth.]
6. What causes floods?
[Hint: Floods are situation where water levels increase to a dangerous level in rivers, cities and villages. Floods are caused by excessive rainfall and insufficient drainage of rainwater.]
7. What is the impact of floods on human life?
[Hint: Floods cause submersion of villages, towns and cities thus affecting the normal life. It causes extensive damage to crops, domestic animals, property and human life.]
8. How does water kept under the shade of a tree also gets evaporated?
[Hint: Air around us gets heated from sunlight. This warm air provides heat for evaporation of water kept in the shade.]
9. Name two processes through which water enters the atmosphere.
[Hint: Evaporation and transpiration.]
10. Sea water is not fit for drinking. Why?
[Hint: The water in the oceans and seas has many salts dissolved in it- the water is saline. So, it is not fit for drinking.]

III. INTERMEDIATE LEVEL QUESTIONS-

1. How does water cycle help in maintaining global climate? [Hint: Water cycle plays an important role in the world climate. Ocean absorb vast quantities of heat and help in global warming. By absorbing heat, water evaporates and on condensation releases heat. This absorption and releasing of heat in the form of energy drives weather pattern in the short-term and regulate the climate for long time.]
2. Why rivers originating from Himalayas do not dry during summer? [Hint: Rivers originating from the Himalayas do not dry up during summers because they continue to get water from the melting snow on the mountains.]
3. What is transpiration and write the factors affecting it? [Hint: A part of water absorbed by the plants is released by plant through their leaves into the air by a process called transpiration.
Transpiration is affected by the following factors: Temperature; Humidity; Windspeed; Time of the day.]
4. Name some of the sources from where we get water?

Hint:



5. Suggest any five methods to conserve water. [Hint: Use water as much as required; Ensure no leakages in pipes; Do not leave the taps open while washing vegetables; Reuse waste water wherever possible; Take shorter showers.]

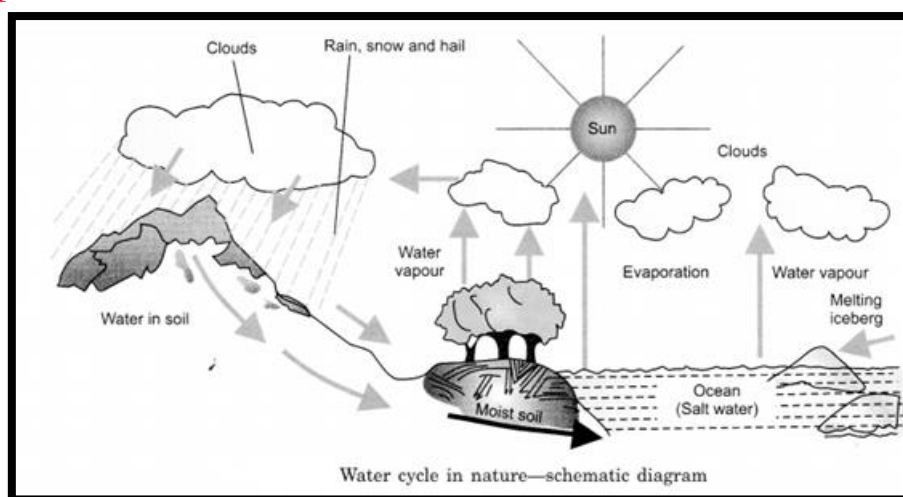
6. What is ground water? How does concrete land makes an impact on ground water? [Hint: Groundwater is the water found underground in the cracks and spaces in soil, sand and rock. Concrete land reduces seepage of rainwater into the ground and affects the availability of groundwater.]

7. How are clouds formed? [Hint: When the air moves up it gets cooler and cooler. At sufficient heights, the air becomes so cool that the water vapour present in it condenses to form tiny drops of water called water droplets. It is these tiny droplets that remain floating in air and appear to us as clouds.]

IV. ADVANCED LEVEL QUESTIONS-

1. Explain the method of rooftop rainwater harvesting. [Hint: It is a method of collecting rain water from the rooftops of buildings through pipes into a storage tank. This can later be filtered by simpler methods for future use. The water thus collected can also be stored in underground pits, which can recharge the groundwater]
2. What are the factors affecting rate of evaporation? [Hint: (a) Temperature: Higher is the temperature higher will be the rate of evaporation; (b) Wind velocity: Higher is the wind velocity higher will be the rate of evaporation; (c) Surface area: Larger is the surface area, i.e., exposed area, larger will be the rate of evaporation; (d) Humidity: Humidity is the presence of moisture in air. Higher is the humidity, less will be the rate of evaporation.]
3. Explain water cycle with a neat labelled diagram.

[Hint:



Water on heating turns into water vapour. Water vapour on cooling gives water again. The change of water from one form to other form over and over again makes the water cycle in nature. The sun heats up and evaporates the water from oceans, ponds, lakes and rivers.

This water vapour being lighter is carried up by the air. This water vapour gets cooled at height and water droplets are formed. These water droplets form a cloud. When these water droplets in the cloud come close together, they form drops of water. These drops of water may fall on the earth as rain. The rain is absorbed by the soil. A part of rain water collected in the rivers flows into the sea, where again the evaporation occurs. This completes the water cycle.]

4. What are the advantages of water harvesting? [Hint: Advantages of water harvesting: (i) In areas where there is very low rainfall, water harvesting is the only way to reduce the water shortage; (ii) There is an increase in the level of groundwater; The effects of drought are lessened; (iii) Places not situated near a river or large lakes have to rely on groundwater. Water harvesting is very important in such areas; (iv) Water logging of low-lying roads and streets is prevented; Soil and water pollution are reduced]

V. EXEMPLAR QUESTIONS-

1. What will happen if we are lost in a sea and drink lot of sea water to quench our thirst? [Hint: The sea water is highly saline. Drinking this water will cause diarrhoea and loss of too much water from our body through frequent urination. Thus, will cause dehydration and ultimately death.]

2. On a summer vacation, Ria went to her village to spend her holidays. After staying there for some days, she realised the problem of shortage of water faced by the villagers. She along with her father went to the office of water supply department of her village and conveyed them the problem of water shortage.

The officer of water supply department assured Ria and her father that they will do something to overcome this shortage but the villagers must also adopt water conservation practices to use water judiciously. Ria thought to make villagers aware of water conservation practices with some interesting play so that they could understand its importance.

(a) Where did Ria went in her summer vacation? [Hint: Ria went to her village in summer vacation.]

(b) What did she observed there? [Hint: She observed water shortage there.]

(c) What do mean by water conservation? [Hint: Water conservation refers to strategies and activities made to manage fresh water as a sustainable resource to meet current and future human demand.]

(d) What practices could help in conserving water?

[Hint: (i) Use water judiciously.

(ii) Use water from washing machine, bathing and moping in watering plants or flushing toilets;

(iii) Check leaking pipes and get it repaired;

(iv) Use high-efficiency toilets that use less water in a flush.

(v) Water the plants at night to reduce loss of water due to evaporation.]

(e) What values of Ria is shown here?

[Hint: Ria is an intelligent, responsible, understanding, sensible and innovative girl.]

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