

# Chapter – 5

## Water

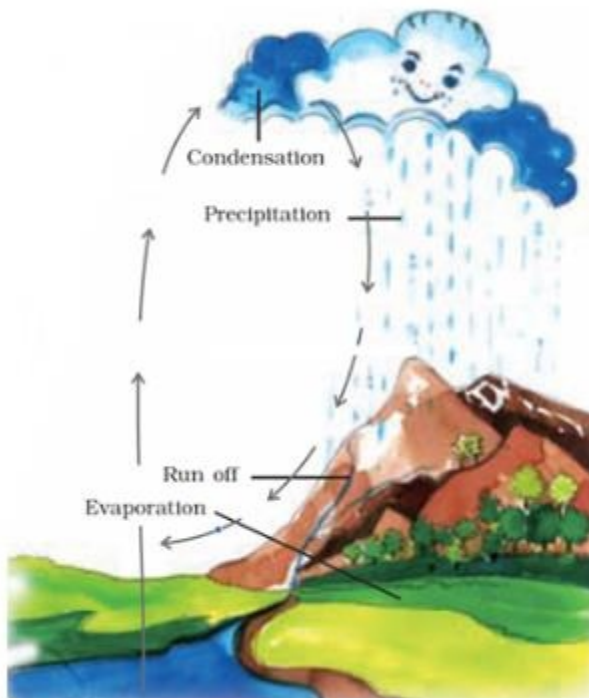
### Exercise

1.

(A) What is precipitation?

**Answer:**

The water from the water sources on the surface of the earth evaporates and rise high up in the sky. As they reach height, they start cooling down and convert to tiny droplets of water. These water droplets join together to form heavy and dense clouds. When the clouds become heavy and cannot hold more water, the droplets fall on the earth in different forms such as rain, hail, frost, fog, sleet or snow. This process of falling down of water in different forms from the surface of the earth is called precipitation.



(B) What is water cycle?

**Answer:**

The water in the nature changes its form from one form to the other and circulates in the nature continuously. The continuous movement of water where, the water continually changes its form and circulates between oceans, atmosphere and land is known as the water cycle.

**(C)** What are the factors affecting the height of the waves?

**Answer:**

During high winds, the high tides arise in the seas and oceans. Due to sudden movement of the lithospheric plates, earthquake, volcanoes and underwater landslides occur. As result of these sudden movements, large amount of water shift and causes an increase in the height of the waves.

**(D)** Which factors affect the movement of ocean water?

**Answer:**

There can be a number of reasons that affect the movement of ocean water. Temperature, winds, gravitational pull of the moon, and warm and cold currents are some factors that affect the movement of ocean water.

**(E)** What are tides and how are they caused?

**Answer:**

The rhythmic rise and fall of ocean water twice in a day are called tide. The strong gravitational pull exerted by the sun and the moon on the earth's surface cause the tides. The gravitational attraction of the moon causes the oceans to bulge out in the direction of the moon. The rise and fall of water due to tides is used to generate electricity in some places.

**(F)** What are ocean currents?

**Answer:**

Ocean currents are streams of water flowing constantly on the ocean surface in definite directions. The ocean currents may be warm or cold.

**2.**

**(A)** Give reasons.

Ocean water is salty?

**Answer:**

The ocean water is salty as it contains different salts and minerals in it. The presence of high concentration of these salts make the water extremely salty and unfit for drinking.

**(B)** Give reasons.

The quality of water is deteriorating?

**Answer:**

Water is a necessary thing that we need to survive. There are a number of reason due to which the quality of water is getting deteriorated.

1. Throwing garbage and other waste in the nearby water bodies.
2. Discharge of chemicals and other industrial waste in the water bodies
3. Flow of water from the fields and farms that contain harmful fertilizers, pesticides and insecticides.
4. Bathing of animals and washing clothes in water.

**3.**

**(A)** Tick the correct answer:

The process by which water continually changes its form and circulates between oceans, atmosphere and land.

- (a) Water cycle
- (b) Tides
- (c) Ocean currents

**Answer:**

The process by which water continually changes its form and circulates between oceans, atmosphere and land is known as the water cycle.

**(B)** Tick the correct answer:

Generally, the warm ocean currents originate near

- (a) Poles
- (b) Equator
- (c) None of these

**Answer:**

The warm ocean currents originate near the equator and move towards the poles. The cold currents carry water from polar or higher latitudes to tropical or lower latitudes.

**(C)** Tick the correct answer:

The rhythmic rise and fall of ocean water twice a day is called

- (a) Tide
- (b) Ocean currents
- (c) Weave

**Answer:**

The rhythmic rise and fall of ocean water twice in a day is called a tide. The strong gravitational pull exerted by the sun and the moon on the earth's surface causes the tides.

**4. Match the following:**

|                 |                  |
|-----------------|------------------|
| (i) Caspian Sea | (a) Largest lake |
|-----------------|------------------|

|                     |                                                  |
|---------------------|--------------------------------------------------|
|                     |                                                  |
| (ii) Tide           | (b) Periodic rise and fall of water              |
| (iii) Tsunami       | (c) Strong seismic waves                         |
| (iv) Ocean currents | (d) Streams of water moving along definite paths |
|                     | (e) Water cycle                                  |

**Answer:**

1. Caspian Sea (a) Largest lake

Caspian Sea is the largest lake. It is also known as full-fledged sea.

2. Tide (b) Periodic rise and fall of water

The rhythmic rise and fall of ocean water twice in a day is called a tide

3. Tsunami (c) strong seismic waves

An earthquake, a volcanic eruption or underwater landslides can shift large amounts of ocean water. As a result, a huge tidal wave called tsunami, is formed.

4. Ocean currents (d) streams of water in definite paths

Ocean currents are streams of water flowing constantly on the ocean surface in definite directions.

**5. For fun**

Be a detective

(i) The name of one river is hidden in each of the sentences below. Spot it.

Example: Mandira, Vijaya Lakshmi and Surinder are my best friends.

Answer. Ravi

(a) The snake charmer's bustee, stables where horses are housed, and piles of wood, all caught fire accidentally. (Hint: Another name for river Brahmaputra)

(b) The conference manager put pad, material for reading and a pencil for each participant. (Hint: A distributaries on the Ganga-Brahmaputra delta)

(c) Either jealousy or anger cause a person's fall. (Hint: Name of juicy fruit)

(d) Bhavani germinated the seeds in a pot. (Hint: Look for her in West Africa)

(e) "I am a zonal champion now," declared the excited athlete. (Hint: The river that has the biggest basin in the world)

(f) The Tiffin box, rolled down and all the food fell in dusty potholes. (Hint: Rise in India and journeys through Pakistan)

(g) Malini leaned against the pole when she felt that she was going to faint (Hint: Her delta in Egypt is famous)

(h) Samantha mesmerized everybody with her magic tricks. (Hint: London is situated on her estuary)

(i) "In this neighborhood, please don't yell! Owners of these houses like to have peace," warned my father when we moved into our new flat. (Hint: colour !)

(j) 'Write the following words. Marc! "On," "go," "in".... said the teacher to the little boy in KG Class. (Hint : Rhymes with 'bongo.)

Now make some more on your own and ask your classmates to spot the hidden name. You can do this with any name: that of a lake, mountains, trees, fruits, school items etc.

**Answer:**

(a) Teesta (Explanation: bustee, stables)

(b) Padma (Explanation: pad manager)

(c) Orange (Explanation: or anger)

- (d) Niger (Explanation: Bhavani germinated)
- (e) Amazon (Explanation: I am a zonai champion)
- (f) Indus (Explanation: in dusty)
- (g) Nile (Explanation: Malini leaned)
- (h) Thames (Explanation: Samantha mesmerized)
- (i) Yellow (Explanation: yell! Owners)
- (j) Congo (Explanation: Marc! “On,” “go)