

Water

Q 1. Answer the following questions.

(i) What is precipitation?

Answer: The heat of the sun converts water into vapor. This vapor cools and condenses as clouds. It can then fall to the surface of the Earth in the form of rain, snow, or sleet. This phenomenon of water falling in the form of rain, snow, or sleet on the surface of the Earth is called precipitation.

(ii) What is the water cycle?

Answer: The process by which water constantly changes its form and moves between the oceans, the atmosphere, and the land is known as the water cycle.

(iii) What are the factors affecting the height of the waves?

Answer: The factors affecting the height of the waves are as follows:

1. Wind speed
2. Earthquake, a volcanic eruption, or an underwater landslide

(iv) Which factors affect the movement of ocean water?

Answer: The factors affecting the movement of ocean water are as follows:

1. Temperature
2. The gravitational pull of sun and moon
3. Warm and cold currents
4. Wind
5. Salinity
6. Shape of continents

(v) What are tides and how are they caused?

Answer: The rhythmic rise and fall of the ocean water twice a day is called tide.

- There are two types of tides—the high tide or the spring tide and low tide or the neap tide.
- The strong gravitational pull exerted by the sun and the moon on the earth's surface cause the tides.
- The water of the earth closer to the moon gets pulled under the influence of the moon's gravitational pull that causes tides.

(vi) What are ocean currents?

Answer: The streams of water flowing constantly on the ocean surface in a definite direction are called ocean currents. The ocean currents may be warm or cold.

Q 2. Give reasons.

(i) Ocean water is salty.

Answer: Ocean water is salty because it contains a large amount of salt dissolved in it. The salt present in ocean water is mostly sodium chloride or the common salt that we eat.

(ii) The quality of water is deteriorating.

Answer: The water quality is deteriorating because of human activities like

1. Deforestation
2. Throwing of garbage and other waste in water bodies
3. Chemicals released from industries
4. Increased use of fertilisers and pesticides

Q 3. Tick the correct answer.

(i) 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: a

(ii) Generally, the warm ocean currents originate near

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

Answer: b

(iii) The rhythmic rise and fall of ocean water twice in a day is called

- (a) Tide
- (b) Ocean current
- (c) Wave

Answer: a

Q 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:

(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