

## Quiz

1. Water occurs in nature in three phases in three physical phases: solid, liquid, and gas and is found
  - i. Only in liquid phase
  - ii. Only in vapour phase
  - iii. In liquid and vapor phases
  - iv. In all three phases.
2. What percentage of freshwater on the earth is contained in rivers, streams, and lakes ?
  - i. More than 50 %
  - ii. Nearly 100 %
  - iii. Less than 1%
  - iv. Between 10 to 20%
3. The energy to move the hydrologic cycle comes from
  - i. Movement of earth
  - ii. Solar energy
  - iii. Both movement of earth and sun
  - iv. Fossil fuels
4. Transpiration of water takes place from
  - i. Lakes and reservoirs
  - ii. All types of (vegetation) plants
  - iii. Plants and oceans
  - iv. All plants, oceans, and lakes

## Tutorial

1. Explain the significance of hydrologic cycle.
2. What are the components of hydrologic cycle?
3. Explain the five main physical actions of the components of the hydrologic cycle.
4. What are the important factors influencing evapotranspiration?

## Case Studies

1. Visit some water bodies in and around you and note down the components of hydrologic cycle and try to ascertain their magnitude.
2. Take a survey to find the primary sources of water in your area. Find out about the quality of water. Has it undergone significant change with time. If yes, why ?
3. Have the human activities impacted the hydrologic cycle in your area ? If yes, in what ways and whether the impact has been good or bad?

## Further Exploration

Besides hydrologic cycle, several other cycles operate in nature. Find out what are these cycles and how they interact with the hydrologic cycle?

