

# REVISION ANSWER KEY

**LEVEL-7**

**SUBJECT: CHEMISTRY**

**TOPIC: WATER**

**Fill up the blanks:**

1. Humans build **reservoirs** to store water for using it in their homes and in factories
2. **Clouds** are blown by prevailing winds towards the land.
3. The **colder temperature** cause the clouds of water vapour to condense into water
4. Rain water picks up **dirt** and chemicals such as **Sulphur dioxide**
5. The **effluent** produced is clean and safe to be pumped into rivers and sea
6. **Oxygen gas** is bubbled through sewage in the aeration tanks to help bacteria digest organic waste

**Define the following:**

1. **Water cycle:** The water in our environment is not used up, it's always move. This movement of water is called as water cycle
2. **Aquifers:** Water also percolates deep into underground layers of porous rock called aquifers. Aquifers are used as a source of drinking water in many countries
3. **Chlorination:** Chlorine gas is bubbled through the water to kill bacteria and other microorganisms

**Answer the following:**

1. What is water pollution?

Ans : Water pollution is the contamination of water bodies usually as a result of human activities. Water bodies include for ex: lakes, rivers, oceans, aquifers and ground water.

2. What is sewage treatment?

Ans: It's the process that removes the majority of contaminants from waste water and produces both a liquid affluent suitable for disposal in the natural environment.

3. Explain the main stages that involved in sewage treatment?

Ans: (i) Filtering/screening-untreated sewage passes through a metal grid to remove large items such as wood, rags and paper which are then burned

(ii) Sedimentation/ settlement-solid particles such as faeces and rotting food sink to the bottom of the setting tank to form sludge

(iii) Digestion-Bacteria and other microorganisms remove all soluble organic waste such as urine, in digestion tanks. The organisms need air so oxygen is bubbled through the tanks to help them to do their job.

(iv) Filtering-the liquid is sprinkled onto stones covered with more microorganisms which feed on any remaining waste.

The effluent produced is clean and safe to be pumped into rivers or the sea.

4. Write the uses of water?

Ans: Domestic purpose like washing, cleaning, gardening, laundry, bathing etc.

i. Recreational uses like swimming , skating, steam bathing

ii. Used in agriculture for irrigation

iii. Used in cooling machines like car engine to avoid overheating and causing serious damage

iv. Water is used to produce electricity.