

EEE Assignment 2

- Q.1. Which type of water contains E-coli
→ (d) Contaminated water
- Q.2. Acidity in natural surface water bodies is mainly due to -
→ (c) Carbon dioxide
- Q.3. Electrical conductivity cannot be determined for
→ (b) Sugar solution.
- Q.4. Which source of water is free from hardness and surface impurities
→ (c) Rain water
- Q.5. Itai-itai disease is caused by consumption of which metal
→ (a) Cadmium
- Q.6. How suspended solids are mostly responsible for turbidity?
- A.6.
- Turbidity of water is based on the amount of light scattered by particles in the water column.
 - The more particles that are present, the more light that will be scattered.
 - Suspended particles usually are colloidal particles if they are of this size $1\text{nm} - 1000\text{nm}$.
 - Not all suspended solids can scatter light hence, it is not always that suspended solids are responsible for Turbidity.
 - Therefore more suspended solid particles of colloidal sizes

Q.7. What are the problems caused by alkaline water?

A.T.

- Environmental impacts of alkaline residue can be locally severe & long lived.
- It can affect terrestrial & aquatic environments.
- It can cause severe physiological disturbance to most fishes, inhibiting the rate of ammonia excretion, leading to its accumulation & toxicity.
- If we drink alkaline water it agitates the body's normal, leading to metabolic alkalosis.
- Resulting issues in humans can be vomiting, nausea, hand tremors.