ASSIGNMENT

1. Explain six major non-domestic use of water.

ANSWER

This includes businesses, industry, agriculture, hotels and other accommodation, educational or sports facilities, as well as hospitals, community or charitable services.

1. Briefly describe the important roles that water plays in the human body.

The body needs water to perform all of the following functions: **regulating body temperature, lubricating joints, moistening tissues** in the mouth, eyes, and nose, **helping to dissolve nutrients** and make them accessible in the bloodstream, **carrying nutrients and oxygen** to cells, and for **flushing out waste products**. In other words, nearly everything that the body does requires water.

**Water enables hydrolysis**, a vital process by which cells breakdown what we eat (lipids, proteins, and carbohydrates) and create energy. But if we go “up” a level or two in size and scale, the role of water in the human body becomes more readily comprehensible, and relatable.

1. List the types of people who are most vulnerable to waterborne diseases. Explain your answers why and how to overcome the diseases

People living in swampy or murky water environments-

People drawing water from poor drinking water source-Lakes and streams which people use for drinking water, bathing and defecating are sources of disease, as is water left by natural disasters.

People leaving in very poor sanitary environments e.g. slum dwelling, concentration camps-People can also contract a diarrheal disease by eating food that's prepared by sick individuals who have not washed their hands, or touching something handled by an infected person and then putting their own hands into their mouths.People tend to transmit infection from one another through the faeco-oral route as they do not master the appropriate method of hand washing after visiting the toilet

1. Suppose that inhabitants of a village obtain water from a spring. What advice would you give to the users about the prevention of contaminants entering the spring? Such community water catchment site if not fenced renders easy access by stray animals that end up contaminating sources of water supply.Therefore I would advice them to fence the source and water their animals outside of the source, for addition precaution, the water should be boiled before use.
2. The following are pollution sources. Give two specific pollutants for each source.
3. A residential area:

Sewage matter and solid wastes

1. A metal plating plant:

Heavy metal concentrates and mercury pollutants

1. Agricultural activities:

pesticide and fertilizer residues.

1. An uncontrolled landfill site:

Effluents and leachates

1. Urban surface water run-off

Effluents and untreated sewage and other solid and hazardous wastes