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16/ENG03/018 Civil Engineering  
Cve 505

Sorry sir, my laptop  
is bad. That's why I  
didn't type.

### Q2. Disadvantages of Large Dam projects

- a. Dam technology disrupts local ecosystems. Dams create a flooding issue behind the structure as a way to form a reservoir. This as a result disrupts human activities and also destroys existing wildlife habitats.
- b. Another disadvantage of large dam projects is that if for any reason the dam fails and is unable to perform its function of retaining water, the whole community is at risk of flooding.
- c. Dams can have adverse impacts on the groundwater table; when rivers experience deepening, this problem creates lower groundwater table along the river. As a result, plant roots are unable to reach what is required for survival.
- d. Dam projects are very expensive.
- e. There will be a negative impact on aquatic animals in that region.
- f. Potential challenges in the maintenance of reservoirs.
- g. Dams can block water progression to different states, provinces and countries.

### Q3. Effects of water pollution on the environment

There are various effects of pollution (either air pollution, noise pollution, water pollution) on the environment which as a result affects the inhabitants of that environment. The effects of water pollution on the environment include;

- a. There is a threat to aquatic life.
- b. There is a disruption in the food chain.
- c. Contamination of drinking supplies.
- d. There is a high chance of the spread of many diseases.



e Destruction of ecosystems

f Eutrophication which leads to decrease in amount of  $O_2$  in water.

Q4 Suitable approach to the decontamination of River water.

Ans: I believe the first step will be to first stop all water polluting sources from further polluting the River. This can then be followed by the dredging of the contaminated soil sludge from the River bed, then handling it to the River banks for treatment. The establishment of a sludge cleaning process where sludge is converted into useful soil. The treatment of these contaminated sources to the River is followed and the return of clean water to the River.

b Another approach can be the employment of the use of wetlands as a natural wastewater treatment whereby wastewater from different sources passes through the wetland where waste is broken down and extracted [by the waste eating plants and micro-organisms] thereby allowing clean water to enter into the River.