

## Question 27 (5 marks)

Describe the physical and chemical processes needed to purify and sanitise a town water supply.

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Water is taken from source. Pumped through filters to remove some solids. Pumped into sedimentary tanks where suspended solids ~~are~~ sink to bottom and scraped away. Nutrients added to water so bacteria feed on them ~~and~~ which make the bacteria visible. The bacteria is then filtered away. Chlorine is added to kill remaining bacteria. Flourine is added for kids to have strong enamel on teeth for protection.

Salt water is purified through the process of reverse osmosis, used in places like Saudi Arabia where ~~the~~ water supplies are from salt water.