

## Question 27 (5 marks)

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

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- Screening to remove large objects from the water, e.g. twigs, branches.
- Coagulation is the adding of chemicals to the water in order for dissolved solids to 'clump' together.
- Filtration by use of sand or membrane filters to remove these 'floc'.
- Addition of  $\text{Cl}_2$  gas to kill bacteria and sterilise the water supply.
- Addition of Flouride to help prevent tooth decay but this is optional.