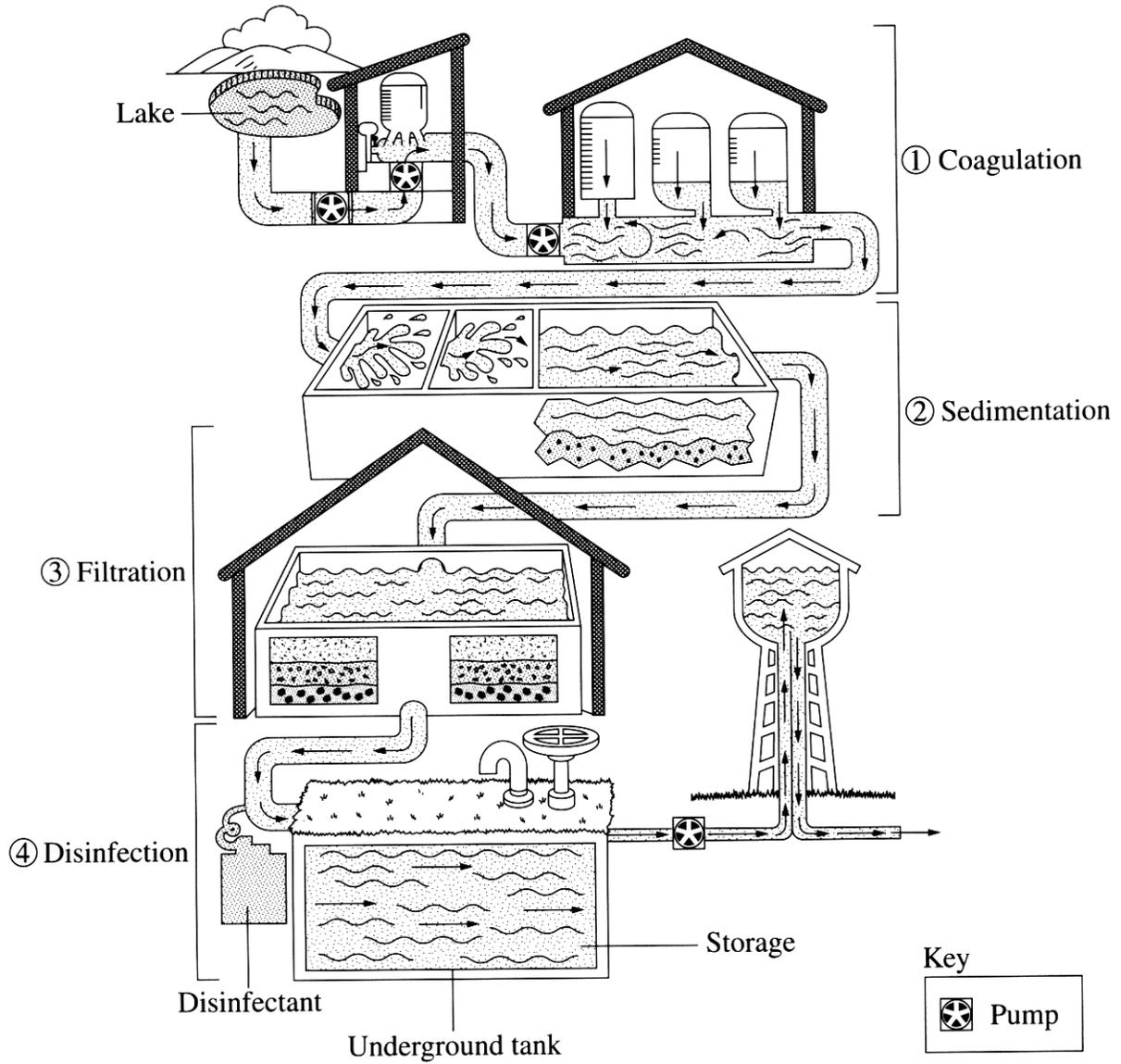


Question 19 (3 marks)

The diagram summarises one method used to treat water to make it suitable for drinking.



Question 19 continues on page 15

Marks

Question 19 (continued)

The treatment method illustrated on page 14 has four processes which can remove the contaminants that may be found in water extracted from the lake.

3

Select ONE of the four processes and explain how this process reduces the risk of infection from pathogens.

Disinfection reduces the risk of infection, as it is a process in which powerful chemicals are added to the freshly filtered water to kill any pathogens ~~is~~ that ^{are} ~~is~~ in the water. These chemicals include chlorine, and sometimes a small amount of ammonia is added before the chlorine to prolong the disinfection of the water. Pathogens cannot survive in an environment with so much chlorine added, and so this reduces the risk of the water becoming contaminated later, as well.