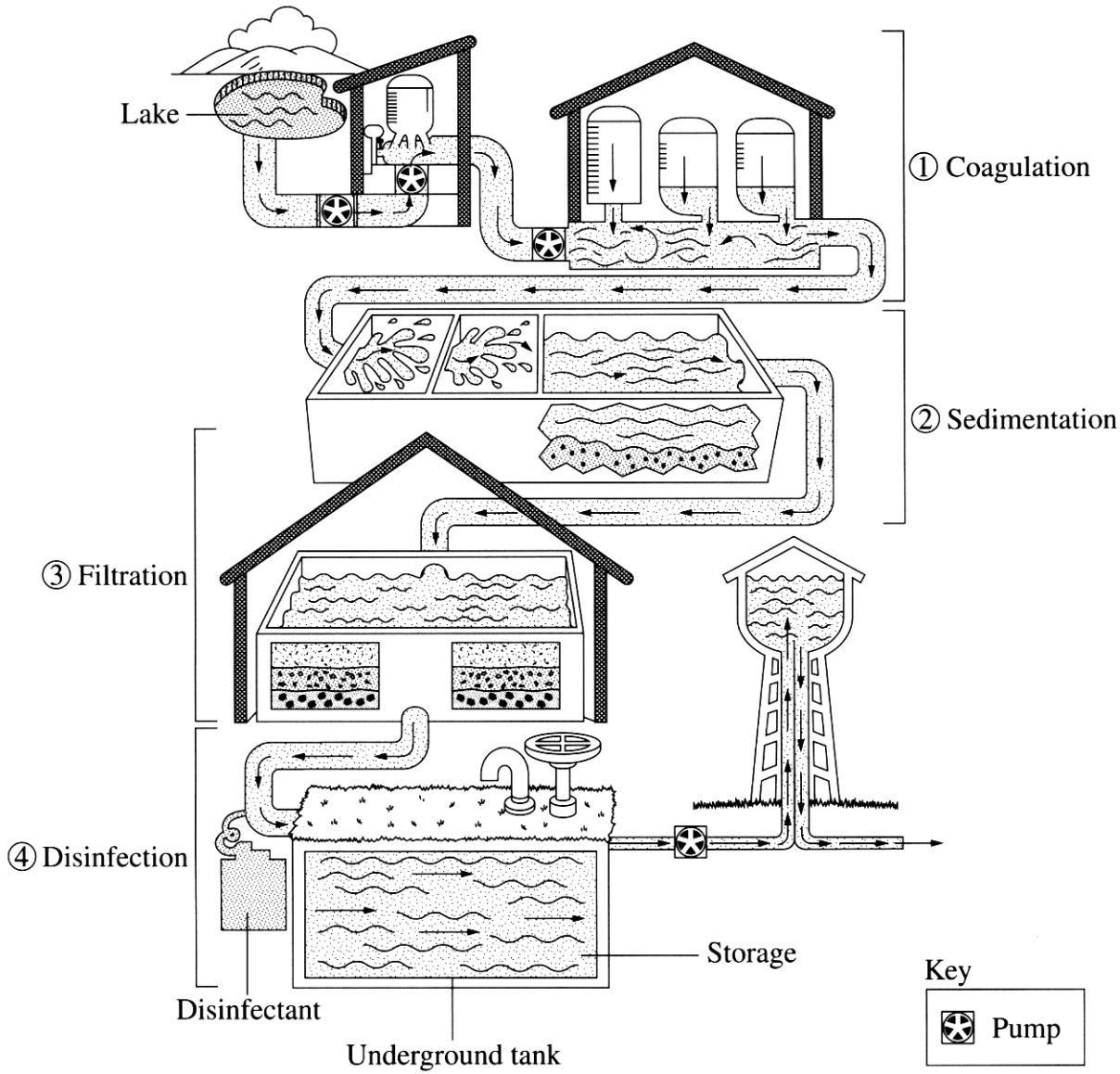


Question 19 (3 marks)

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.

① Disinfection.....
..... Water is disinfected by addition of chlorine
..... (chlorination). Also, chloramination is used
..... as chlorine + amine compounds serve as a
..... longer lasting disinfectant. These disinfectants kill
..... pathogens, such as giardia and cryptosporidium,
..... that may contaminate the water. It is less likely
..... pathogens will inhabit the water that could cause
..... infection by drinking or in food preparation.....