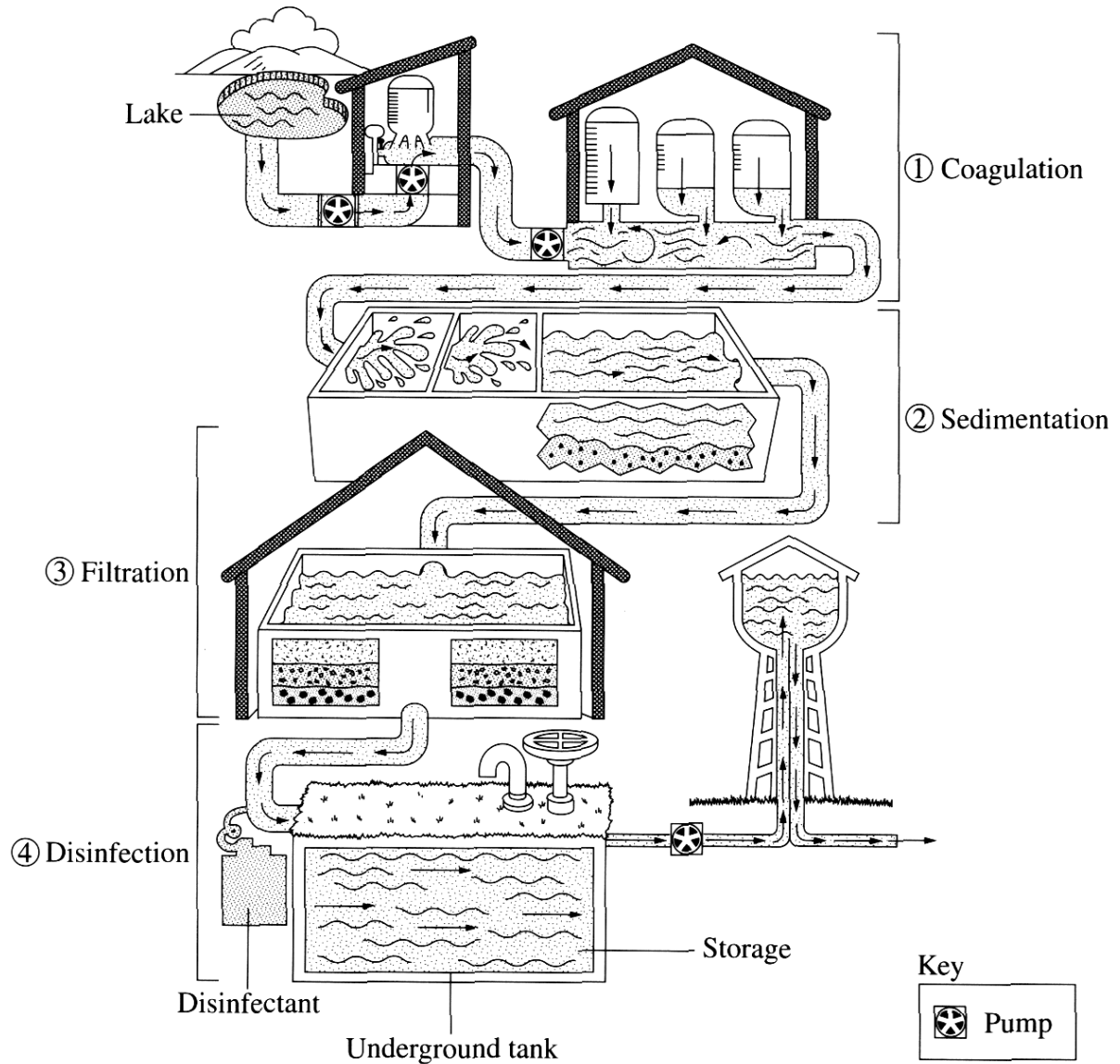


Question 19 (3 marks)

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: This reduces the number of pathogens by killing them, or killing so many that they are in such small amounts they can't cause disease. This is achieved through adding chlorine to the water, and in some cases for extra disinfection ammonium ions are added prior to the chlorine which provides longer lasting disinfection against microorganisms and pathogens that may be in the water such as giardia and cryptosporidium.