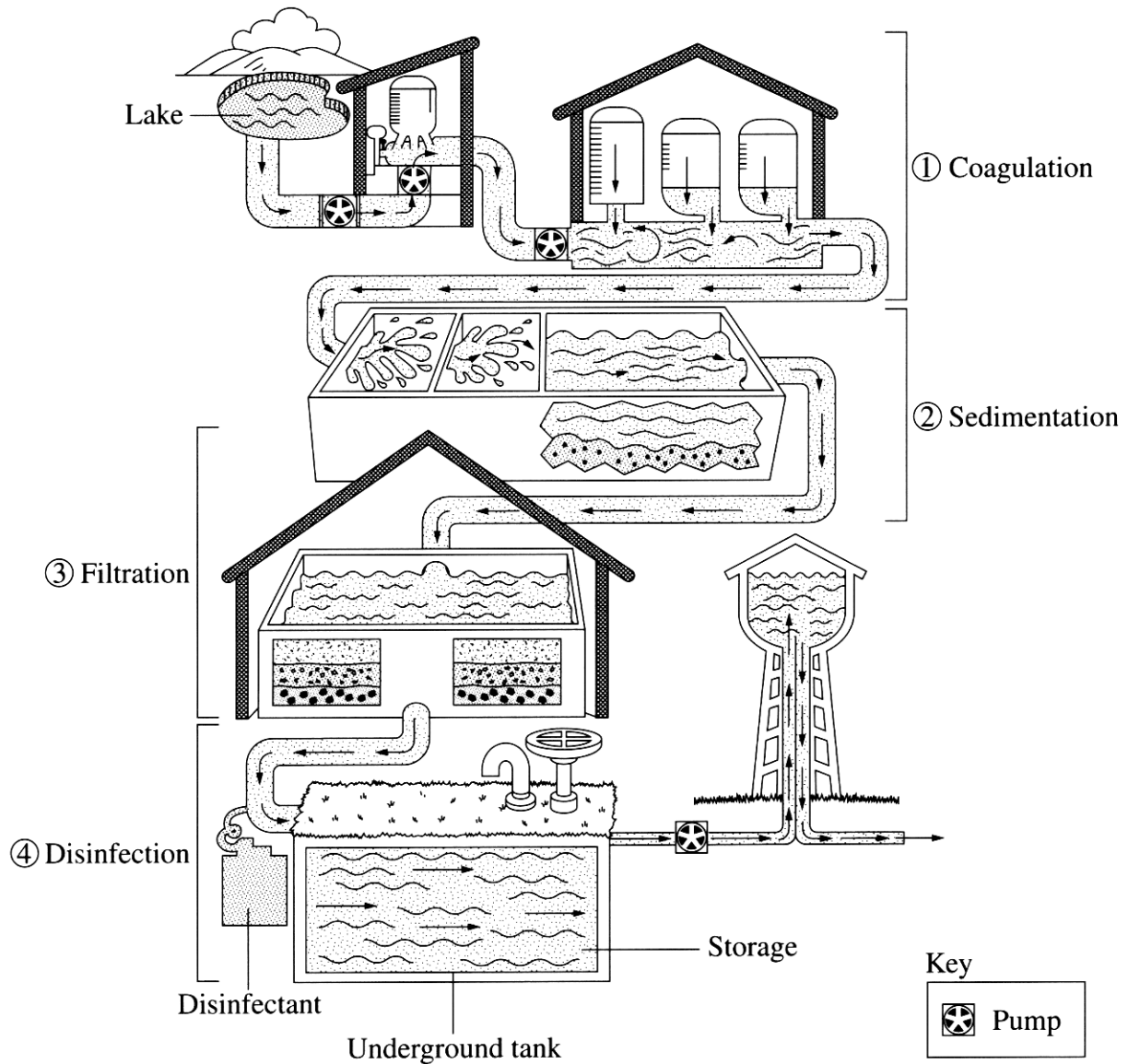


Question 19 (3 marks)

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.

Process ④ - Disinfection. - After the large particles in water have been removed via filtration, sedimentation etc., the water may still be contaminated with micro-organisms that can cause disease. Disinfecting the water with chemicals such as chlorine & ammonia to produce chloramines, ensures that all bacteria are killed as well as providing a longer lasting means of disinfection through the chloramination. The disinfectant being attached directly to the water supply is an efficient method of removing contaminants in the water as it passes through that point & storage in an underground tank, prevents reinfection from other contaminants that may be present in the air.