## **Food Prpduction**

20.	Which of the following statements describes the sequence of events when fertiliser leaches into a loch?				
	Α	Algal bloom develops → algae die → oxygen concentration increases			
	В	Algal bloom develops —▶ algae die —▶ oxygen concentration decreases			

C Oxygen concentration increases → algal bloom develops → algae die
D Algae die → oxygen concentration decreases → algal bloom develops

(b)	State the term which describes the use of a predator as an alternative to	
	pesticides.	1

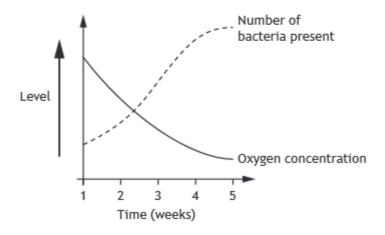
- 24. Pesticides sprayed onto crops can get into food chains. The following statements refer to stages in this process.
  - J Pesticides are absorbed by plants.
  - K Pesticides build up in animals.
  - L Plants are eaten by animals.

Identify the order of steps by which pesticides could reach lethal levels in the bodies of animals.

	Step 1	Step 2	Step 3
Α	J	К	L
В	L	J	К
С	L	К	J
D	J	L	К

(b) Later in the year the gardener noticed that the algae in his pond had increased and now covered the surface of the water. He sampled the pond water over 5 weeks and measured its oxygen concentration and number of bacteria present.

The results are shown in the graph.



(i) What name is given to the increased growth of algae in the pond?

(ii) Explain why the increased growth of algae resulted in an increase in the number of bacteria.

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(iii) Using the information in the graph, explain why the increase in number of bacteria resulted in the population of goldfish in the pond decreasing.