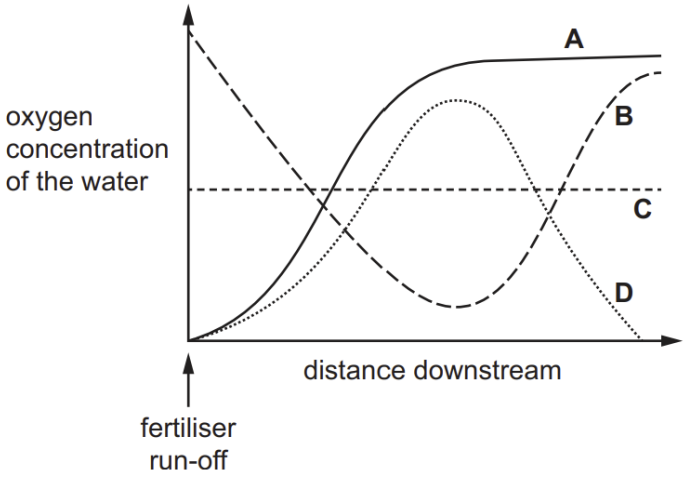
SMART EXAM RESOURCES
0654 COORDINATED SCIENCES [DOUBLE AWARD]
TOPIC QUESTIONS – BIOLOGY [PAPER 2- MCQ]

19.6-Pollution-Set-1

1.

Which line shows how the oxygen concentration of the water changes after excess fertiliser has entered a stream?



2.

When raw sewage is discharged into a river, there is

A a decrease in oxygen concentration caused by a decrease in bacterial activity.

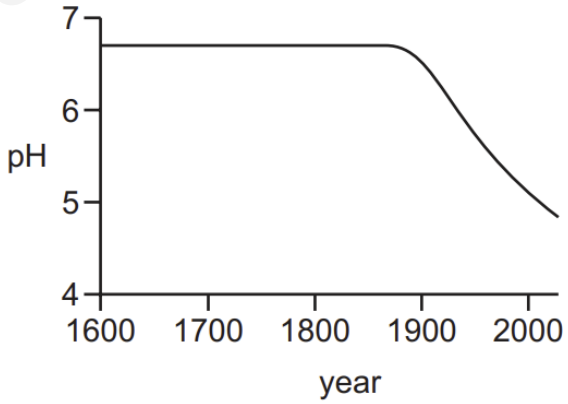
B a decrease in oxygen concentration caused by an increase in bacterial activity.

C an increase in oxygen concentration caused by a decrease in bacterial activity.

D an increase in oxygen concentration caused by an increase in bacterial activity.

3.

The graph shows how the pH of a lake has changed from 1600 to 2000.



What would have contributed to the change from 1900 onwards?

A burning of coal in nearby power stations

B increasing global temperatures

C increased growth of algae in the lake

D the use of pesticides on nearby fields

4.

Lichens grow on the bark of trees. Lichen growth can be affected by sulfur dioxide and other pollutants. Their absence is often used as an indicator of pollution.

The table shows the percentage cover of lichens at distances from the centre of a large city.

distance from city centre / km	percentage cover by lichens on the bark
0	3
5	10
8	15
12	30
20	40

Which conclusion can be made from these results?

A Lichen growth is reduced by sulfur dioxide.

B Lichens cannot survive in the city.

C Lichens grow better further away from the city centre.

D Lichens grow equally well on all species of trees.

5.

The list shows changes that occur in a lake which is polluted by fertiliser.

1 Decomposers feed on aquatic plants.

2 Growth of algae increases.

3 Oxygen levels decrease in the lake.

4 Aquatic plants die.

In which order do these changes occur?

A $2 \rightarrow 4 \rightarrow 1 \rightarrow 3$

B $2 \rightarrow 3 \rightarrow 4 \rightarrow 1$

C $3 \rightarrow 4 \rightarrow 2 \rightarrow 1$

D $3 \rightarrow 4 \rightarrow 1 \rightarrow 2$