

31 Which technique is **not** used to conserve endangered animal species?

- A artificial insemination
- B captive breeding programmes
- C *in vitro* fertilisation
- D seed banks

37 Eutrophication results in a reduction in the dissolved oxygen in streams and lakes.

What causes the reduction in dissolved oxygen?

- A decreased aerobic respiration by decomposers
- B decreased aerobic respiration by fish
- C increased aerobic respiration by decomposers
- D increased aerobic respiration by fish

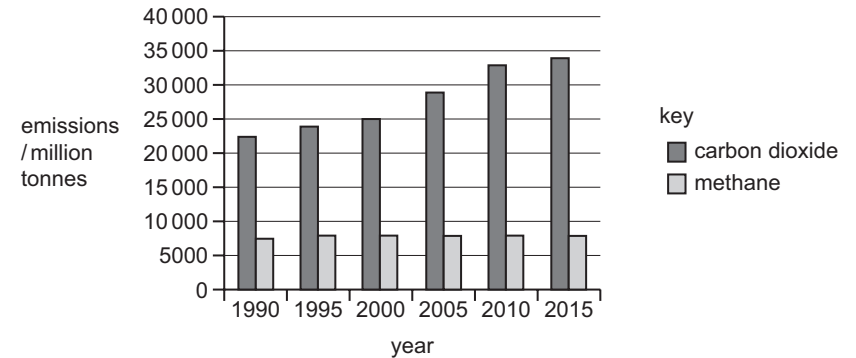
38 What are reasons for using chemical fertilisers in food production?

	to reduce the use of herbicides	to increase crop yields	to reduce competition between crops and weeds
A	yes	yes	yes
B	no	yes	no
C	yes	no	no
D	no	no	yes

38 What is an **advantage** of large scale monocultures?

- A increased biodiversity
- B increased crop yield
- C increased susceptibility to disease
- D increased variation in the crop plant

39 The graph shows the global emissions of carbon dioxide and methane from 1990 to 2015.



A student makes four statements about carbon dioxide and methane.

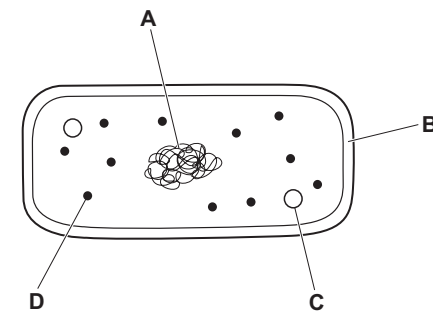
- Carbon dioxide and methane were the only sources of greenhouse gases produced in 1990.
- Carbon dioxide emissions continue to rise to the present day.
- Carbon dioxide has a greater effect on climate change than methane.
- Methane emissions were lower than carbon dioxide emissions between 1990 and 2015.

How many statements are supported by these data?

- A 1
- B 2
- C 3
- D 4

40 The diagram shows a bacterium.

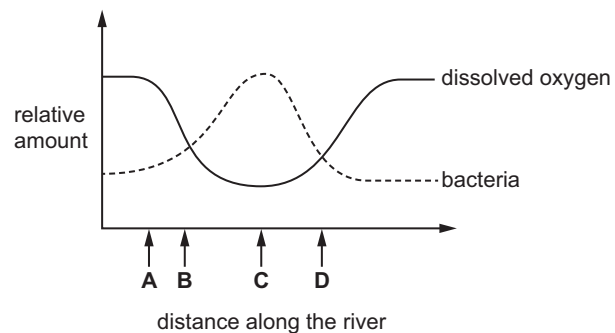
Which structure is cut to form sticky ends during genetic modification?



39 The graph shows the relative amounts of bacteria and dissolved oxygen at different locations along a river.

Fertiliser has entered the river.

At which distance along the river did the fertiliser enter the river?



38 Which term describes the number of different species living in an area?

- A biodiversity
- B conservation
- C ecosystem
- D population

39 Which source of pollution can cause eutrophication?

- A carbon dioxide
- B methane
- C non-biodegradable plastic
- D sewage

39 When managing fish stocks as a **sustainable resource**, what is a reason for harvesting only the larger fish of a particular species?

- A Larger fish are easier to harvest.
- B Larger fish sell at a higher price.
- C Smaller fish are eaten by predators.
- D Smaller fish are too young to breed.