

1. Nov/2023 /Paper_ 0610/11/No.38

What can increase as a result of deforestation?

- 1 extinctions
- 2 flooding
- 3 biodiversity

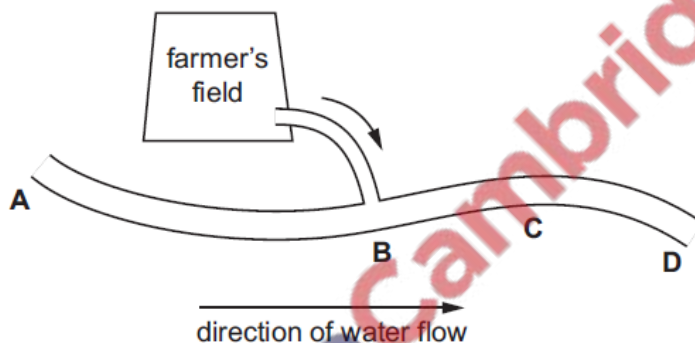
A 1, 2 and 3 B 1 and 2 only C 1 and 3 only D 2 and 3 only

2. Nov/2023 /Paper_ 0610/11/No.39

The diagram shows the position of a farmer's field near a river.

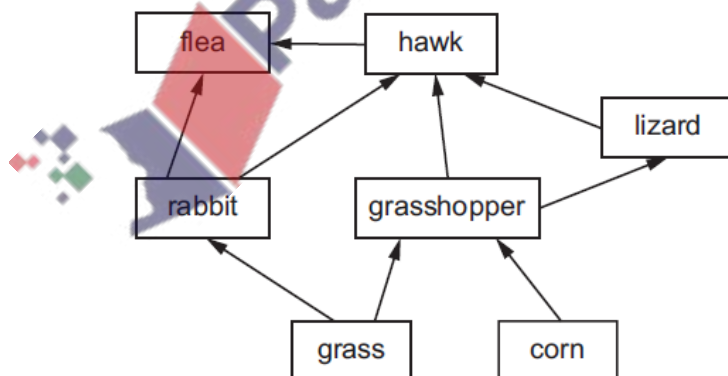
The farmer uses chemical fertilisers that drain into the river, causing pollution. High concentrations of the chemical fertiliser result in increased growth of aquatic plants.

At which point is the growth of aquatic plants the **least** affected by fertilisers?



3. Nov/2023 /Paper_ 0610/11/No.40

The diagram shows a food web.



Which food chain shows a correct flow of energy through the web?

- A corn → grasshopper → hawk → lizard
- B grass → grasshopper → hawk → rabbit
- C grass → rabbit → hawk → flea
- D corn → grass → rabbit → hawk

4. Nov/2023 /Paper_ 0610/21/No.38

During eutrophication, what causes the death of fish?

- A increased growth of producers
- B increased photosynthesis by producers
- C decreased concentration of carbon dioxide in the water
- D decreased concentration of oxygen in the water

5. Nov/2023 /Paper_ 0610/21/No.40

Some ways in which humans make use of organisms are listed.

- 1 using yeast to produce ethanol
- 2 artificial selection of sheep with thick wool
- 3 using bacteria to produce human substances

What are examples of genetic modification?

- A 1 and 3 B 1 only C 2 and 3 D 3 only

6. Nov/2023 /Paper_ 0610/22/No.39

One method of conserving fish stocks is to have a minimum mesh size for fishing nets.

How is the mesh size chosen to conserve a particular fish species?

- A The holes in the net must be small enough to catch only young fish.
- B The holes in the net must be small enough to catch all fish old enough to reproduce.
- C The holes in the net must be large enough to catch some fish of all ages.
- D The holes in the net must be large enough to allow young fish to escape.

7. Nov/2023 /Paper_0610/23/No.37

An increased concentration of nitrates in water may result in the death of fish because of eutrophication.

Some stages of eutrophication are given.

- 1 increased aerobic respiration by decomposers
- 2 increased decomposition after death of producers
- 3 increased growth of producers
- 4 reduction in dissolved oxygen

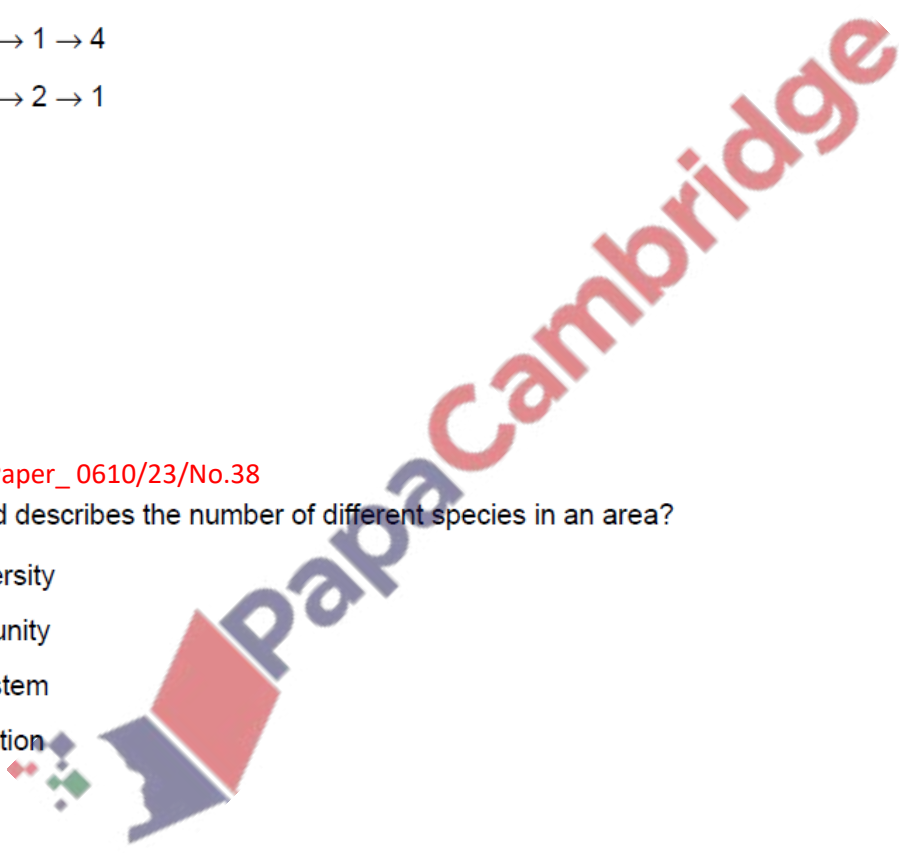
What is the order of these stages that results in the death of fish?

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

8. Nov/2023 /Paper_0610/23/No.38

Which word describes the number of different species in an area?

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



(b) State **two** ways that pathogens can be transmitted indirectly.

1

2

[2]

(c) State **three** body defences against infection.

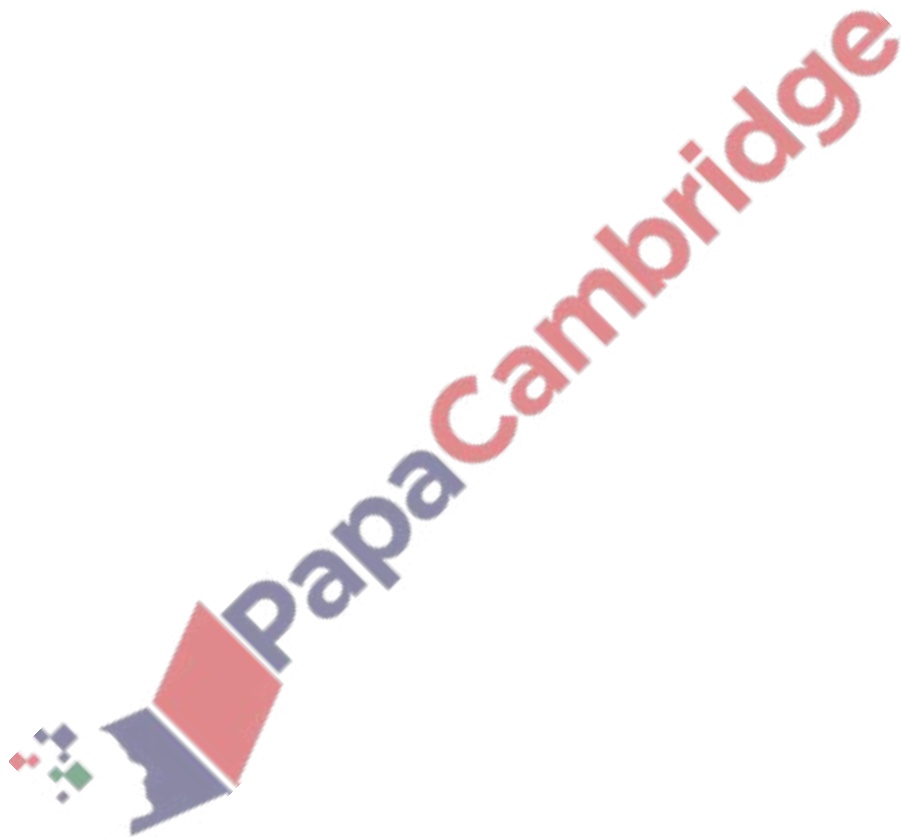
1

2

3

[3]

[Total: 9]



(b) Fig. 8.1 shows intensive farming of chickens.



Fig. 8.1

State **three** disadvantages of intensive livestock production.

- 1
- 2
- 3

[3]

