Ecology

Biology Paper 2 | 5 questions, 6 marks each

GCSE science 6-mark questions

This topic online

Name: _____ **Date:** _____ **Score:** _____ **/ 30**

Plan before you write: jot down the 6 or more ideas you need, then put them in a sensible order. For compare questions give both sides of each point; for evaluate questions use the information and finish with a conclusion.

1 In a woodland in Kent, carbon atoms are constantly recycled between the air, living things and dead material.

Describe how carbon is cycled in the woodland.

(6 marks)

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2 On a Scottish estate, wildlife officers counted mountain hares (prey) and golden eagles (predators) over eight years.

Year	Number of hares	Number of eagles
1	400	6
2	650	7
3	800	10
4	550	14
5	300	12
6	250	8
7	450	6
8	700	7

Use the data to describe and explain the changes in the two populations. (6 marks)

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3 Large areas of tropical rainforest are being cleared to grow crops for biofuels and to graze cattle.

Explain how this deforestation affects biodiversity and the composition of the atmosphere. (6 marks)

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4 A supermarket is deciding whether to sell more farmed salmon or more wild-caught salmon. It is given this information.

Farmed salmon	Wild salmon
Kept in large cages in Scottish sea lochs	Caught at sea
Movement limited; fed high-protein food	Fish move freely and find their own food
Disease and parasites spread easily; treated with chemicals	Some stocks are falling due to overfishing
Lower price for shoppers	Higher price; supply varies

Evaluate selling farmed salmon compared with wild salmon. Give a justified conclusion.

Separate science only

(6 marks)

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5 Zainab has a compost bin in her garden in Birmingham. In winter, her grass cuttings and vegetable peelings take months to rot. In summer they rot in a few weeks.

Suggest why the waste rots faster in summer, and suggest how Zainab could make her compost form more quickly all year round.

Separate science only

(6 marks)

End of questions | Total 30 marks

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