ENGLAND GCSE COMBINED SCIENCE EDEXCEL FOUNDATION · UNIT 9 · 10 QUESTIONS

Ecosystems and Material Cycles — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button so it can be fixed.

1

A honeybee visits a flower to collect nectar. What does it carry between flowers?

A leaves

B pollen

C seeds

D water

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2 **Rabbits in a population show different fur colours. What is this called?**

A selection

B mutation

C variation

D evolution

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3 **How is carbon dioxide returned to the air?**

A by photosynthesis

B by decomposition only

C by respiration

D by feeding

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4 **A field has 10000 kg of grass. If 10 percent of the energy passes to the rabbits, how much grass biomass supports the rabbits?**

- A 10000 kg
- B 2000 kg
- C 1000 kg
- D 500 kg

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5 **Quadrat counts of daisies are 4, 6 and 5. What is the mean count?**

- A 4
- B 6
- C 15
- D 5

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6 **What threatens food security?**

A fewer people in the world

B better farming methods

C a growing population

D more food in shops

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7 **A quadrat of area 20 square metres contains on average 5 daisies. Estimate the number of daisies in a field of 200 square metres.**

A 500

B 50

C 25

D 100

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8 **Seabirds eat fish. What trophic level are the seabirds?**

A producers, making their own food

B decomposers, breaking down dead matter

C secondary consumers

D primary consumers, eating producers

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9 **Fishing boats use diesel. What is diesel made from?**

A coal, mined from the ground

B water, from the sea

C crude oil

D wood, cut from trees

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10 **Producers in a food chain have a biomass of 1000 kg. About 10 per cent of biomass passes to the next level. What is the biomass of the primary consumers?**

A 200

B 100

C 10

D 1000

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ANSWER KEY

1. B
2. C
3. C
4. C
5. D
6. C
7. B
8. C
9. C
10. B

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