ENGLAND GCSE COMBINED SCIENCE AQA TRILOGY HIGHER · UNIT 7 · 25 QUESTIONS

Ecology — 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 **Seabirds are affected by plastic pollution. How does plastic harm them?**

- A it makes them stronger and healthier
- B it helps them fly
- C they eat it by mistake
- D it keeps them warm

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2 **A forest absorbs carbon dioxide. Which process does this?**

- A respiration in the trees
- B decomposition in the soil
- C combustion of the wood
- D photosynthesis

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

- A crude oil
- B water, from the sea
- C wood, cut from trees
- D coal, mined from the ground

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

- A pollen
- B leaves
- C seeds
- D water

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5 **A river provides drinking water. Why must the water be treated before drinking?**

- A to remove harmful substances
- B to heat it up for use
- C to make it taste better for drinking
- D to add minerals for health

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6 **Rabbits breed quickly. What does this mean for the population?**

- A it can grow fast
- B it always falls
- C it never changes
- D it always stays small

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7 **What is a producer?**

A an organism that makes its own food

B an organism that eats animals

C an organism that eats plants

D an organism that breaks down dead matter

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8 **A quadrat of area 50 square metres contains on average 4 daisies. Estimate the number of daisies in a field of 500 square metres.**

A 80

B 400

C 20

D 40

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9 **A field has 1000 kg of grass. If 5 percent of the energy passes to the rabbits, how much grass biomass supports the rabbits?**

- A 50 kg
- B 100 kg
- C 25 kg
- D 500 kg

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10 **What is a biotic factor?**

- A a living factor, like a predator
- B a physical factor, like light
- C a chemical factor, like pH
- D a non-living factor, like temperature

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11 **Producers in a food chain hold 100000 kJ of energy. About 10 percent passes to the primary consumers. How much energy reaches them?**

- A 100000 kJ
- B 10000 kJ
- C 20000 kJ
- D 5000 kJ

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12 **Why are quadrats placed randomly?**

- A to find the most organisms
- B to save time
- C to get a fair sample
- D to avoid counting

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13 **A quadrat of area 50 square metres contains on average 8 daisies. Estimate the number of daisies in a field of 500 square metres.**

A 800

B 80

C 160

D 40

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

A by respiration

B by decomposition only

C by photosynthesis

D by feeding

Understand It with Pulse | Flag a mistake

15 **A field has 1000 kg of grass. If 10 percent of the energy passes to the rabbits, how much grass biomass supports the rabbits?**

- A 50 kg
- B 100 kg
- C 1000 kg
- D 200 kg

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16 **What is biomass?**

- A the mass of dead material
- B the mass of living material
- C the number of organisms
- D the energy in a food chain

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17 **What is a habitat?**

A a population

B a food web

C where an organism lives

D all the organisms in an area

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18 **Producers in a food chain hold 10000 kJ of energy. About 10 percent passes to the primary consumers. How much energy reaches them?**

A 2000 kJ

B 500 kJ

C 10000 kJ

D 1000 kJ

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19 **A quadrat of area 10 square metres contains on average 6 daisies. Estimate the number of daisies in a field of 100 square metres.**

- A 600
- B 60
- C 30
- D 120

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20 **What shape is a pyramid of biomass?**

- A a circle
- B the same width all the way up
- C narrow at the bottom, wide at the top
- D wide at the bottom, narrow at the top

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21 **A quadrat of area 50 square metres contains on average 5 daisies. Estimate the number of daisies in a field of 500 square metres.**

- A 100
- B 50
- C 25
- D 500

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22 **A field has 2000 kg of grass. If 10 percent of the energy passes to the rabbits, how much grass biomass supports the rabbits?**

- A 2000 kg
- B 400 kg
- C 100 kg
- D 200 kg

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23 **How does deforestation affect the atmosphere?**

- **A** less carbon dioxide is absorbed
- **B** the air gets cleaner
- **C** more carbon dioxide is absorbed
- **D** more oxygen is made

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24 **A quadrat of area 50 square metres contains on average 6 daisies. Estimate the number of daisies in a field of 500 square metres.**

- **A** 600
- **B** 60
- **C** 30
- **D** 120

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25

What do decomposers return to the soil?

A nutrients

B water

C carbon dioxide

D oxygen

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Flag a mistake

ANSWER KEY

1. C
2. D
3. A
4. A
5. A
6. A
7. A
8. D
9. A
10. A
11. B
12. C
13. B
14. A
15. B
16. B
17. C
18. D
19. B
20. D
21. B
22. D
23. A
24. B
25. A

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