ENGLAND GCSE BIOLOGY AQA 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 **A river provides drinking water. Why must the water be treated before drinking?**

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

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

3 **A forest is cut down. What happens to the carbon stored in the trees?**

- A it is stored forever
- B it disappears
- C it is released
- D it turns to oxygen

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

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

- A evolution
- B mutation
- C selection
- D variation

Understand It with Pulse | Flag a mistake

6 **Fishing boats float on water. Why do they float?**

- A they displace enough water
- B they have sails that catch the wind
- C they are heavy and sink slowly
- D they are made of metal, which floats

Understand It with Pulse | Flag a mistake

7 **A field has 10000 kg of grass. If 5 percent of the energy passes to the rabbits, how much grass biomass supports the rabbits?**

- A 5000 kg
- B 1000 kg
- C 250 kg
- D 500 kg

Understand It with Pulse | Flag a mistake

8 **Why are quadrats placed randomly?**

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

Understand It with Pulse | Flag a mistake

9 **Why is decay important in an ecosystem?**

A it recycles nutrients

B it makes the soil warmer

C it stops plants growing

D it removes carbon dioxide

Understand It with Pulse | Flag a mistake

10 **Why is biodiversity important?**

A stable ecosystems

B it increases crop yields at once

C it makes farming cheaper

D it stops all disease

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

12 **A quadrat of area 20 square metres contains on average 6 daisies. Estimate the number of daisies in a field of 200 square metres.**

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

Understand It with Pulse | Flag a mistake

13 **What is a quadrat used for?**

A to count every plant exactly

B to catch small animals

C to estimate a population

D to measure the height of trees

Understand It with Pulse | Flag a mistake

14 **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 10

C 1000

D 100

Understand It with Pulse | Flag a mistake

15 **What is the water cycle driven by?**

A gravity only

B wind only

C energy from the soil

D energy from the Sun

Understand It with Pulse | Flag a mistake

16 **Where is carbon stored long term?**

A in the air as oxygen

B in fossil fuels

C in rain water

D in living organisms only

Understand It with Pulse | Flag a mistake

17 **A field has 5000 kg of grass. If 5 percent of the energy passes to the rabbits, how much grass biomass supports the rabbits?**

- A 250 kg
- B 500 kg
- C 125 kg
- D 2500 kg

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

19 **Which factors affect the rate of decay?**

A rain, snow and frost only

B light, temperature and carbon dioxide

C soil type, light and wind

D temperature, water and oxygen

Understand It with Pulse | Flag a mistake

20 **What is a genetically modified crop?**

A a crop grown in a greenhouse

B a crop grown without any fertiliser

C a crop that needs no water

D a crop with a useful new gene

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

22 **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 40
- B 800
- C 160
- D 80

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

24 **Producers in a food chain have a biomass of 2000 kg. About 10 per cent of biomass passes to each level. What is the biomass of the secondary consumers?**

- A 20
- B 200
- C 2
- D 40

Understand It with Pulse | Flag a mistake

25

How does photosynthesis affect carbon dioxide in the air?

A it stores carbon dioxide in soil

B it releases carbon dioxide

C it removes carbon dioxide

D it turns carbon dioxide into oxygen

Understand It with Pulse

Flag a mistake

ANSWER KEY

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

© 2026 Brett Robbins. All Rights Reserved.