ENGLAND GCSE COMBINED SCIENCE AQA TRILOGY FOUNDATION · 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 **Fishing boats catch fish. What trophic level are the fish?**

- A plants
- B decomposers
- C producers
- D consumers

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2 **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 add minerals for health
- D to make it taste better for drinking

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3 **A honeybee collects nectar. What is nectar?**

- A a protein-rich food
- B a mineral solution
- C a sugary liquid
- D a fatty substance

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4 **Seabirds on a rocky island eat fish. If the fish population falls, what happens to the seabirds?**

- A their numbers rise
- B they move to the sea
- C their numbers fall
- D they eat more fish

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

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

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6 **Rabbits with white fur survive better in snow. What is this an example of?**

- A mutation
- B extinction
- C natural selection
- D artificial selection

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7 **A quadrat of area 10 square metres contains on average 4 daisies. Estimate the number of daisies in a field of 100 square metres.**

- A 40
- B 80
- C 400
- D 20

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8 **A field has 2000 kg of grass. If 5 percent of the energy passes to the rabbits, how much grass biomass supports the rabbits?**

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

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9 **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 100000 kJ
- D 10000 kJ

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10 **A quadrat of area 10 square metres contains on average 5 daisies. Estimate the number of daisies in a field of 100 square metres.**

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

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

A energy from the Sun

B gravity only

C energy from the soil

D wind only

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12 **Why are quadrats placed randomly?**

A to avoid counting

B to save time

C to get a fair sample

D to find the most organisms

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

A wide at the bottom, narrow at the top

B narrow at the bottom, wide at the top

C the same width all the way up

D a circle

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14 **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 125 kg

B 2500 kg

C 500 kg

D 250 kg

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15 **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 1000 kJ
- D 10000 kJ

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16 **What is a habitat?**

- A all the organisms in an area
- B where an organism lives
- C a population
- D a food web

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17 **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 120
- C 30
- D 60

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18 **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 200 kg
- D 100 kg

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19 **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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20 **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 250 kg

B 500 kg

C 1000 kg

D 5000 kg

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21 **What is a biotic factor?**

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

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22 **A quadrat of area 20 square metres contains on average 4 daisies. Estimate the number of daisies in a field of 200 square metres.**

- **A** 20
- **B** 80
- **C** 400
- **D** 40

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23 How is carbon dioxide returned to the air?

- A by photosynthesis
- B by respiration
- C by feeding
- D by decomposition only

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24 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 200 kg
- B 1000 kg
- C 100 kg
- D 50 kg

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25 **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 160

B 40

C 800

D 80

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ANSWER KEY

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

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