ENGLAND GCSE BIOLOGY AQA 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 **A river flows to the sea. What is this part of?**

- A the water cycle
- B the rock cycle
- C the carbon cycle
- D the nitrogen cycle

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

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

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

A a mineral solution

B a protein-rich food

C a sugary liquid

D a fatty substance

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4 **A forest provides a habitat. What does habitat mean?**

A when an organism sleeps

B where an organism lives

C how an organism breeds

D what an organism eats

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

A natural selection

B extinction

C mutation

D artificial selection

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6 **Fishing boats catch fish. What trophic level are the fish?**

A consumers

B plants

C producers

D decomposers

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

- A soil type, light and wind
- B temperature, water and oxygen
- C rain, snow and frost only
- D light, temperature and carbon dioxide

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8 **Producers in a food chain have a biomass of 5000 kg. About 10 per cent of biomass passes to the next level. What is the biomass of the primary consumers?**

- A 1000
- B 5000
- C 50
- D 500

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9 **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 120
- B 60
- C 600
- D 30

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

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

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

A 4

B 6

C 5

D 15

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12 **In a food chain, where does the energy come from?**

A the decomposers

B the soil

C the Sun

D the consumers

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

A more carbon dioxide is absorbed

B the air gets cleaner

C less carbon dioxide is absorbed

D more oxygen is made

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

A in living organisms only

B in fossil fuels

C in the air as oxygen

D in rain water

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15 **How does reducing food waste help food security?**

A more land is farmed

B fish stocks recover

C crops grow faster

D less food is wasted

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16 **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 1000 kJ

C 10000 kJ

D 500 kJ

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17 **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 50 kg
- B 100 kg
- C 1000 kg
- D 200 kg

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18 **What makes a good compost heap?**

- A wet, cold and airless
- B dry, warm and sealed
- C warm, moist and airy
- D cold, dry and sealed

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

- A 20
- B 400
- C 2000
- D 200

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20 **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 60
- B 600
- C 120
- D 30

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21 **Why are quadrats placed at random?**

A to avoid bias

B to save time in the field

C to cover the whole area

D to find the rarest plants

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

A by feeding

B by decomposition only

C by photosynthesis

D by respiration

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23 **What do fishing quotas do?**

- A they ban all fishing
- B they make fish grow faster
- C they limit the catch
- D they increase the catch

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24 **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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25 **A field has 5000 kg of grass. If 10 percent of the energy passes to the rabbits, how much grass biomass supports the rabbits?**

A 1000 kg

B 250 kg

C 5000 kg

D 500 kg

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ANSWER KEY

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

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