ENGLAND GCSE BIOLOGY EDEXCEL HIGHER · UNIT 9 · 25 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 **Seabirds are affected by plastic pollution. How does plastic harm them?**

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

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

A natural selection

B mutation

C extinction

D artificial selection

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3 **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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4

A river flows to the sea. What is this part of?

A the rock cycle

B the carbon cycle

C the water cycle

D the nitrogen cycle

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5

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

A plants

B decomposers

C producers

D consumers

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

- A when an organism sleeps
- B how an organism breeds
- C where an organism lives
- D what an organism eats

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7 **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 80
- B 40
- C 20
- D 400

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

- A 5
- B 50
- C 100
- D 500

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

- A to measure the height of trees
- B to count every plant exactly
- C to estimate a population
- D to catch small animals

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

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

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11 **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 1000 kg
- B 500 kg
- C 5000 kg
- D 250 kg

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12 **How does photosynthesis affect carbon dioxide in the air?**

A it removes carbon dioxide

B it stores carbon dioxide in soil

C it releases carbon dioxide

D it turns carbon dioxide into oxygen

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13 **Which is a sustainable farming method?**

A growing one crop every year

B crop rotation

C using more fertiliser

D clearing more forest for fields

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14 **What is a producer?**

A an organism that makes its own food

B an organism that breaks down dead matter

C an organism that eats animals

D an organism that eats plants

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15 **What do decomposers return to the soil?**

A nutrients

B water

C carbon dioxide

D oxygen

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

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

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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 30
- C 120
- D 60

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18 **Producers in a food chain have a biomass of 10000 kg. About 10 per cent of biomass passes to the next level. What is the biomass of the primary consumers?**

A 10000

B 2000

C 1000

D 100

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19 **Why are quadrats placed randomly?**

A to save time

B to find the most organisms

C to avoid counting

D to get a fair sample

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20 **What is a habitat?**

A where an organism lives

B all the organisms in an area

C a food web

D a population

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21 **What are decomposers?**

A animals that eat dead plants

B bacteria and fungi

C green plants and algae

D worms and insects only

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

A narrow at the bottom, wide at the top

B the same width all the way up

C a circle

D wide at the bottom, narrow at the top

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23 **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 200 kg

C 100 kg

D 50 kg

Understand It with Pulse | Flag a mistake

24 **What is one effect of global warming?**

A sea levels rise

B the air holds less water

C all deserts become wetter

D more ice forms at the poles

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

A a crop that needs no water

B a crop grown without any fertiliser

C a crop grown in a greenhouse

D a crop with a useful new gene

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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