ENGLAND GCSE BIOLOGY OCR GATEWAY FOUNDATION · UNIT 4 · 25 QUESTIONS

Community Level Systems — 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 **Rabbits with white fur survive better in snow. What is this an example of?**

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

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2 **Seabirds eat fish. What trophic level are the seabirds?**

- A secondary consumers
- B producers, making their own food
- C decomposers, breaking down dead matter
- D primary consumers, eating producers

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3 **A peach tree flowers in spring. What do bees carry between flowers?**

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

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4 **A sunflower turns its head to follow the Sun. What is this a response to?**

- A water
- B touch
- C light
- D gravity

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5 **A honeybee is an insect. How many legs does it have?**

- A 8
- B 6
- C 4
- D 10

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

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

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7 **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 100000 kJ
- C 20000 kJ
- D 5000 kJ

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8 **Why are quadrats placed randomly?**

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

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9 **What is a habitat?**

A a population

B where an organism lives

C all the organisms in an area

D a food web

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10 **A field has 10000 kg of grass. If 10 percent of the energy passes to the rabbits, how much grass biomass supports the rabbits?**

A 500 kg

B 2000 kg

C 10000 kg

D 1000 kg

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

A by respiration

B by photosynthesis

C by decomposition only

D by feeding

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12 **What is a transect?**

A a trap for small animals

B a square frame on the ground

C a line across a habitat

D a way of counting trees

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13 **What are decomposers?**

A green plants and algae

B worms and insects only

C bacteria and fungi

D animals that eat dead plants

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14 **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 120

B 60

C 600

D 30

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

A in rain water

B in fossil fuels

C in the air as oxygen

D in living organisms only

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16 **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 40

B 2

C 200

D 20

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17 **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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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 10000 kJ

B 2000 kJ

C 500 kJ

D 1000 kJ

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19 **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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20 **What is the water cycle driven by?**

- A wind only
- B energy from the soil
- C energy from the Sun
- D gravity only

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

A it removes carbon dioxide

B it stops plants growing

C it makes the soil warmer

D it recycles nutrients

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22 **A quadrat of area 10 square metres contains on average 8 daisies. Estimate the number of daisies in a field of 100 square metres.**

A 40

B 80

C 800

D 160

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23 **Producers in a food chain have a biomass of 1000 kg. About 10 per cent of biomass passes to each level. What is the biomass of the secondary consumers?**

- A 1
- B 100
- C 20
- D 10

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24 **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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25

Why are quadrats placed at random?

A to cover the whole area

B to avoid bias

C to find the rarest plants

D to save time in the field

Understand It with Pulse

Flag a mistake

ANSWER KEY

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

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