ENGLAND GCSE BIOLOGY OCR GATEWAY HIGHER · 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 **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 their numbers rise
- D they eat more fish

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

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

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

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

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4 **A sunflower grows taller over the summer. Where does most of the extra mass come from?**

- A sunlight captured by the leaves
- B minerals absorbed from the soil
- C carbon dioxide from the air
- D water absorbed from the soil

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

A 6

B 10

C 4

D 8

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

A mutation

B selection

C evolution

D variation

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7 **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 200
- C 400
- D 2000

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8 **A field has 1000 kg of grass. If 5 percent of the energy passes to the rabbits, how much grass biomass supports the rabbits?**

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

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

- A a crop with a useful new gene
- B a crop that needs no water
- C a crop grown without any fertiliser
- D a crop grown in a greenhouse

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10 **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 80
- C 800
- D 40

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11 **What is biomass?**

A the mass of living material

B the mass of dead material

C the energy in a food chain

D the number of organisms

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

A it releases carbon dioxide

B it stores carbon dioxide in rock

C it turns carbon dioxide into oxygen

D it removes carbon dioxide

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13 **What is a biotic factor?**

A a physical factor, like light

B a non-living factor, like temperature

C a chemical factor, like pH

D a living factor, like a predator

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

A the soil

B the decomposers

C the Sun

D the consumers

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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 1000 kJ
- C 500 kJ
- D 10000 kJ

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

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

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17 **What is a transect?**

A a way of counting trees

B a line across a habitat

C a square frame on the ground

D a trap for small animals

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18 **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 20

B 1

C 10

D 100

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19 **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 1000 kg
- B 2000 kg
- C 10000 kg
- D 500 kg

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

- A fish stocks recover
- B more land is farmed
- C crops grow faster
- D less food is wasted

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21 **A quadrat of area 20 square metres contains on average 8 daisies. Estimate the number of daisies in a field of 200 square metres.**

- A 40
- B 800
- C 80
- D 160

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

- A the air holds less water
- B sea levels rise
- C all deserts become wetter
- D more ice forms at the poles

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

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

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24 **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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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 500 kg

B 250 kg

C 5000 kg

D 1000 kg

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ANSWER KEY

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

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