ENGLAND GCSE COMBINED SCIENCE 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 eat more fish
- C they move to the sea
- D their numbers rise

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

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

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

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

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4 **A peach is a fruit. Which part of the flower does it develop from?**

- A the petal
- B the stigma
- C the ovary
- D the anther

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

- A evolution
- B selection
- C mutation
- D variation

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6 **A forest absorbs carbon dioxide. Which process does this?**

- A combustion of the wood
- B decomposition in the soil
- C respiration in the trees
- D photosynthesis

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7 **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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8 **What is a quadrat used for?**

A to estimate a population

B to count every plant exactly

C to measure the height of trees

D to catch small animals

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

A by decomposition only

B by feeding

C by photosynthesis

D by respiration

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

A soil type, light and wind

B light, temperature and carbon dioxide

C temperature, water and oxygen

D rain, snow and frost only

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

- A 200
- B 1000
- C 10
- D 100

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12 **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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13 **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 30
- B 600
- C 60
- D 120

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14 **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 10000 kg
- B 500 kg
- C 2000 kg
- D 1000 kg

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

A a crop grown without any fertiliser

B a crop grown in a greenhouse

C a crop with a useful new gene

D a crop that needs no water

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

A it removes carbon dioxide

B it turns carbon dioxide into oxygen

C it stores carbon dioxide in soil

D it releases carbon dioxide

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

- A 5
- B 15
- C 6
- D 4

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

- A the air gets cleaner
- B more carbon dioxide is absorbed
- C more oxygen is made
- D less carbon dioxide is absorbed

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

A energy from the soil

B wind only

C gravity only

D energy from the Sun

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20 **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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21 **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 2
- B 200
- C 40
- D 20

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22 **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 25
- C 100
- D 500

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

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

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

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25

Where is carbon stored long term?

A in fossil fuels

B in living organisms only

C in rain water

D in the air as oxygen

Understand It with Pulse

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ANSWER KEY

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

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