ENGLAND GCSE COMBINED SCIENCE OCR TWENTY FIRST CENTURY HIGHER · UNIT 3 · 25 QUESTIONS

Living Together - Food and Ecosystems — 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 it keeps them warm
- B it makes them stronger and healthier
- C they eat it by mistake
- D it helps them fly

Understand It with Pulse | Flag a mistake

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

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

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3 **Red apples are cut and left in air. Why do they turn brown?**

- A they ferment into alcohol
- B enzymes react with oxygen
- C they freeze in the cold
- D they dry out in the air

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4 **A peach contains a stone. What is inside the stone?**

- A a flower
- B a leaf
- C a root
- D a seed

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5 **A forest absorbs carbon dioxide from the air. Which process is responsible?**

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

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6 **A sunflower is left in bright light. Its leaves photosynthesise faster than in dim light. What else would increase the rate?**

- A less water in the soil
- B a lower temperature
- C more carbon dioxide in the air
- D less chlorophyll in the leaves of the plant

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

- A to cover the whole area
- B to avoid bias
- C to save time in the field
- D to find the rarest plants

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8 **What is a habitat?**

A a population

B all the organisms in an area

C where an organism lives

D a food web

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9 **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 200 kg

B 50 kg

C 1000 kg

D 100 kg

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

A sea levels rise

B all deserts become wetter

C more ice forms at the poles

D the air holds less water

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

A by photosynthesis

B by decomposition only

C by feeding

D by respiration

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12 **A pondweed plant releases 30 bubbles of oxygen in 6 minutes. How many bubbles does it release per minute?**

- A 6
- B 4
- C 10
- D 5

Understand It with Pulse | Flag a mistake

13 **What are decomposers?**

- A bacteria and fungi
- B animals that eat dead plants
- C worms and insects only
- D green plants and algae

Understand It with Pulse | Flag a mistake

14 **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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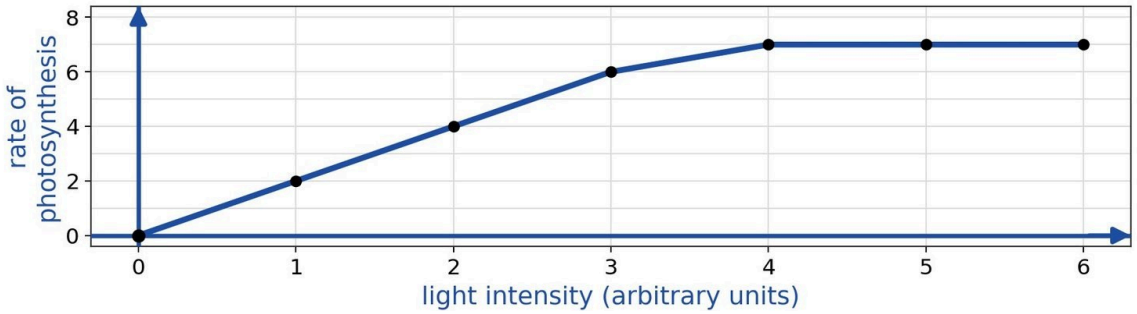
15 **The graph shows the rate of photosynthesis at different light intensities. At which light intensity does the rate first reach its maximum?**



A 2

B 6

C 4

D 3

Understand It with Pulse | Flag a mistake

16 **What is glucose made into for storage in a plant?**

A starch

B cellulose

C protein

D chlorophyll

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

A 100000 kJ

B 10000 kJ

C 5000 kJ

D 20000 kJ

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18 **What is metabolism?**

A the breakdown of food in the gut only

B the release of energy in respiration

C all the chemical reactions in the body

D the building of proteins only

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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 400

B 2000

C 20

D 200

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20 **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 800
- B 160
- C 80
- D 40

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

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

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22 **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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23 **What is evaporation in the water cycle?**

- A water evaporating from seas
- B water running off the land into rivers
- C water freezing on mountains
- D rain falling on the sea

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24 **A pondweed plant releases 24 bubbles of oxygen in 4 minutes. How many bubbles does it release per minute?**

- A 6
- B 5
- C 7
- D 12

Understand It with Pulse | Flag a mistake

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

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

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ANSWER KEY

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

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