ENGLAND GCSE BIOLOGY 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 **Red apples contain vitamin C. What is vitamin C needed for?**

- A making red blood cells
- B good eyesight at night
- C healthy skin and gums
- D strong bones and teeth

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

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

A secondary consumers

B primary consumers, eating producers

C decomposers, breaking down dead matter

D producers, making their own food

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

A 6

B 8

C 10

D 4

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6

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

A leaves

B seeds

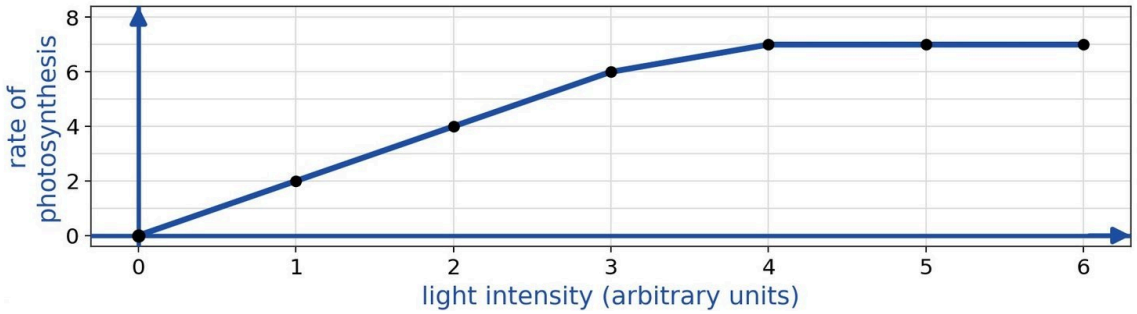
C pollen

D water

Understand It with Pulse

Flag a mistake

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



A 4

B 3

C 2

D 6

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8 **What is a biotic factor?**

A a physical factor, like light

B a non-living factor, like temperature

C a living factor, like a predator

D a chemical factor, like pH

Understand It with Pulse | Flag a mistake

9 **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 160

C 80

D 800

Understand It with Pulse | Flag a mistake

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

A in the air as oxygen

B in fossil fuels

C in rain water

D in living organisms only

Understand It with Pulse | Flag a mistake

11 **Why is biodiversity important?**

A it makes farming cheaper

B it stops all disease

C stable ecosystems

D it increases crop yields at once

Understand It with Pulse | Flag a mistake

12 **A pondweed plant releases 36 bubbles of oxygen in 3 minutes. How many bubbles does it release per minute?**

A 12

B 13

C 24

D 11

Understand It with Pulse | Flag a mistake

13 **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 5000 kg

C 1000 kg

D 250 kg

Understand It with Pulse | Flag a mistake

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

A wide at the bottom, narrow at the top

B narrow at the bottom, wide at the top

C a circle

D the same width all the way up

Understand It with Pulse | Flag a mistake

15 **What happens to excess amino acids in the body?**

A they are breathed out

B they become urea

C they are turned into glucose

D they are stored as glycogen

Understand It with Pulse | Flag a mistake

16 **Why does increasing temperature increase the rate of photosynthesis, up to a point?**

A stomata open wider in the heat

B chlorophyll absorbs more light

C the plant takes in more water

D enzymes work faster

Understand It with Pulse | Flag a mistake

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

A rain, snow and frost only

B light, temperature and carbon dioxide

C temperature, water and oxygen

D soil type, light and wind

Understand It with Pulse | Flag a mistake

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

A starch

B chlorophyll

C cellulose

D protein

Understand It with Pulse | Flag a mistake

19 **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 10000 kJ

C 1000 kJ

D 500 kJ

Understand It with Pulse | Flag a mistake

20 **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

Understand It with Pulse | Flag a mistake

21 **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 500
- D 100

Understand It with Pulse | Flag a mistake

22 **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 80
- B 800
- C 160
- D 40

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

24 **What gas is released by photosynthesis?**

A hydrogen

B nitrogen

C carbon dioxide

D oxygen

Understand It with Pulse | Flag a mistake

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

A a crop grown in a greenhouse

B a crop grown without any fertiliser

C a crop that needs no water

D a crop with a useful new gene

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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