ENGLAND GCSE COMBINED SCIENCE EDEXCEL HIGHER · UNIT 6 · 25 QUESTIONS

Plant Structures and Their Functions — 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 **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

2 **A school lunch tray holds a meal with milk. Which nutrient is milk rich in?**

A vitamin C

B calcium

C fibre

D iron

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

A photosynthesis

B respiration

C combustion

D decomposition in the soil

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4 **A sandwich contains bread and cheese. Where does digestion begin?**

A in the small intestine

B in the mouth

C in the large intestine

D in the stomach

Understand It with Pulse | Flag a mistake

5 **A cheese pizza provides energy. Which nutrient provides most energy?**

A fat

B fibre

C vitamins

D protein

Understand It with Pulse | Flag a mistake

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

A they ferment into alcohol

B they dry out in the air

C enzymes react with oxygen

D they freeze in the cold

Understand It with Pulse | Flag a mistake

7 **Which plant tissue carries water up the plant?**

A cortex

B xylem

C epidermis

D phloem

Understand It with Pulse | Flag a mistake

8 **How can a grower increase crop yield in a greenhouse?**

A by keeping the greenhouse dark

B by cooling the greenhouse down

C by adding carbon dioxide

D by watering less often

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9 **A pondweed plant releases 12 bubbles of oxygen in 2 minutes. How many bubbles does it release per minute?**

A 12

B 7

C 5

D 6

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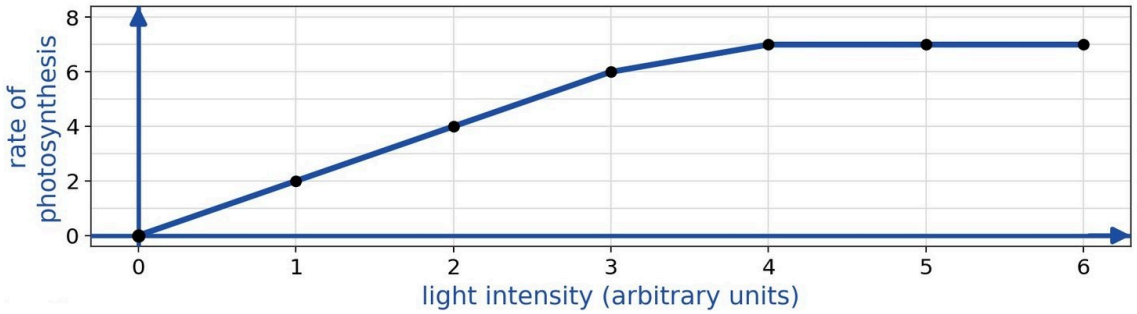
10 **The graph shows the rate of photosynthesis at different light intensities. At which light intensity does the rate first reach its maximum?**



A 2

B 6

C 4

D 3

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11 **What is the word equation for photosynthesis?**

A glucose plus water gives carbon dioxide plus oxygen

B carbon dioxide plus water gives glucose plus oxygen

C carbon dioxide plus oxygen gives glucose plus water

D glucose plus oxygen gives carbon dioxide plus water

Understand It with Pulse | Flag a mistake

12 **What is the transpiration stream?**

A food moving down a plant

B minerals moving into root hairs

C water evaporating from soil

D water moving up a plant

Understand It with Pulse | Flag a mistake

13 **Which plant tissue carries sugars around the plant?**

A pith

B phloem

C cortex

D xylem

Understand It with Pulse | Flag a mistake

14 **A pondweed plant releases 30 bubbles of oxygen in 2 minutes. How many bubbles does it release per minute?**

A 30

B 15

C 14

D 16

Understand It with Pulse | Flag a mistake

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

A oxygen

B carbon dioxide

C nitrogen

D hydrogen

Understand It with Pulse | Flag a mistake

16 **Which tissue carries dissolved food around a plant?**

A cambium

B epidermis

C xylem

D phloem

Understand It with Pulse | Flag a mistake

17 **What does a plant make from glucose for energy storage in seeds?**

A cellulose

B starch

C lipids

D protein

Understand It with Pulse | Flag a mistake

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

A 2

B 1

C 4

D 3

Understand It with Pulse | Flag a mistake

19 **Which part of the plant absorbs light for photosynthesis?**

A the flower

B the root

C the leaf

D the stem

Understand It with Pulse | Flag a mistake

20 **What do guard cells do?**

A absorb water from soil

B open and close the stomata

C make chlorophyll

D carry sugars down the stem

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21 **A pondweed plant releases 18 bubbles of oxygen in 6 minutes. How many bubbles does it release per minute?**

- A 3
- B 4
- C 2
- D 6

Understand It with Pulse | Flag a mistake

22 **What do stomata do?**

- A carry food around the plant
- B let gases in and out
- C catch light for photosynthesis
- D absorb water from the soil

Understand It with Pulse | Flag a mistake

23 **Which of these is a use of glucose in a plant?**

- A respiration
- B photosynthesis
- C pollination
- D transpiration

Understand It with Pulse | Flag a mistake

24 **What is transpiration?**

- A water loss from leaves
- B sugar transport in phloem
- C photosynthesis in leaves
- D water uptake by roots

Understand It with Pulse | Flag a mistake

25

What is a limiting factor for photosynthesis?

A the factor present in the largest amount

B the factor that stops all photosynthesis

C the factor that only affects respiration

D the factor in shortest supply

Understand It with Pulse

Flag a mistake

ANSWER KEY

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

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