ENGLAND GCSE COMBINED SCIENCE EDEXCEL FOUNDATION · 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 sandwich provides energy. Which process releases energy from food in cells?

A fermentation

B photosynthesis

C respiration

D digestion

Understand It with Pulse

Flag a mistake

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

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

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

- A iron
- B calcium
- C fibre
- D vitamin C

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

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

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

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

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6 **A cheese pizza contains cheese made from milk. What is milk rich in?**

A iron

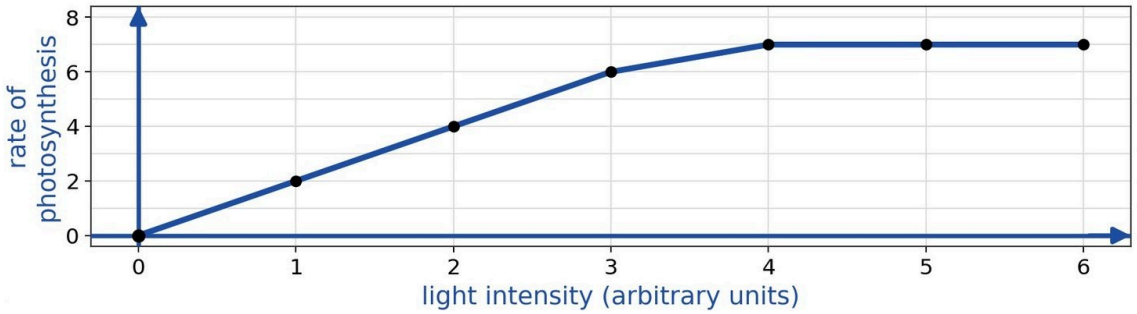
B fibre

C calcium

D vitamin C

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



A 6

B 2

C 3

D 4

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8 **Which factor increases the rate of transpiration?**

A a higher temperature

B a higher humidity

C still air around the leaves

D a lower light level

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9 **Why does the rate of photosynthesis level off as light intensity rises?**

A the chloroplasts stop working

B the leaves close their stomata

C the plant runs out of water

D another factor limits it

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

A 6

B 5

C 12

D 7

Understand It with Pulse | Flag a mistake

11 **What is transpiration?**

A water uptake by roots

B water loss from leaves

C photosynthesis in leaves

D sugar transport in phloem

Understand It with Pulse | Flag a mistake

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

A starch

B lipids

C cellulose

D protein

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13 **What is a limiting factor for photosynthesis?**

A the factor present in the largest amount

B the factor in shortest supply

C the factor that only affects respiration

D the factor that stops all photosynthesis

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14 **A pondweed plant releases 36 bubbles of oxygen in 4 minutes. How many bubbles does it release per minute?**

A 9

B 8

C 18

D 10

Understand It with Pulse | Flag a mistake

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

A phloem

B epidermis

C cortex

D xylem

Understand It with Pulse | Flag a mistake

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

A starch

B protein

C chlorophyll

D cellulose

Understand It with Pulse | Flag a mistake

17 **Why do guard cells close the stomata at night?**

A to reduce water loss

B to let oxygen out

C to stop photosynthesis

D to absorb more minerals

Understand It with Pulse | Flag a mistake

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

A the plant takes in more water

B enzymes work faster

C stomata open wider in the heat

D chlorophyll absorbs more light

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19 **A pondweed plant releases 24 bubbles of oxygen in 3 minutes. How many bubbles does it release per minute?**

A 16

B 9

C 8

D 7

Understand It with Pulse | Flag a mistake

20 **What do guard cells do?**

A carry sugars down the stem

B absorb water from soil

C open and close the stomata

D make chlorophyll

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

A 16

B 15

C 30

D 14

Understand It with Pulse | Flag a mistake

22 **What do stomata do?**

A catch light for photosynthesis

B absorb water from the soil

C carry food around the plant

D let gases in and out

Understand It with Pulse | Flag a mistake

23 **A pondweed plant releases 24 bubbles of oxygen in 2 minutes. How many bubbles does it release per minute?**

A 11

B 13

C 12

D 24

Understand It with Pulse | Flag a mistake

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

A photosynthesis

B respiration

C pollination

D transpiration

Understand It with Pulse | Flag a mistake

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

A phloem

B xylem

C cambium

D epidermis

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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