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

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

Understand It with Pulse | Flag a mistake

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

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

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

Understand It with Pulse | Flag a mistake

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

- A in the stomach
- B in the mouth
- C in the small intestine
- D in the large intestine

Understand It with Pulse | Flag a mistake

5 **A school lunch tray holds a meal with bread, cheese and an apple. Which food group is the bread from?**

- A vitamins, for health
- B carbohydrates
- C proteins, for growth
- D fats, for insulation

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

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

- A by watering less often
- B by cooling the greenhouse down
- C by keeping the greenhouse dark
- D by adding carbon dioxide

Understand It with Pulse | Flag a mistake

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

A carbon dioxide

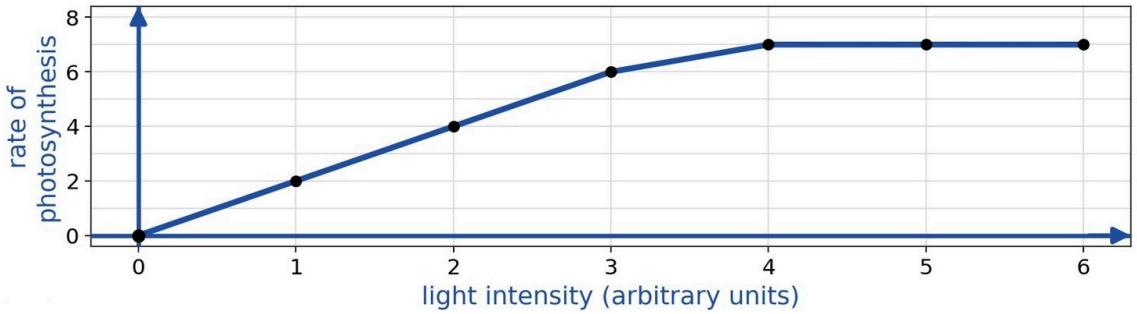
B hydrogen

C oxygen

D nitrogen

Understand It with Pulse | Flag a mistake

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




**A** 3

**B** 6

**C** 4

**D** 2

Understand It with Pulse | Flag a mistake

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

A xylem

B phloem

C cortex

D epidermis

Understand It with Pulse | Flag a mistake

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

A phloem

B xylem

C epidermis

D cambium

Understand It with Pulse | Flag a mistake

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

A cellulose

B starch

C protein

D lipids

Understand It with Pulse | Flag a mistake

13 **A pondweed plant releases 18 bubbles of oxygen in 2 minutes. How many bubbles does it release per minute?**

A 10

B 18

C 9

D 8

Understand It with Pulse | Flag a mistake

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

- A the chloroplasts stop working
- B another factor limits it
- C the plant runs out of water
- D the leaves close their stomata

Understand It with Pulse | Flag a mistake

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

- A to stop photosynthesis
- B to reduce water loss
- C to absorb more minerals
- D to let oxygen out

Understand It with Pulse | Flag a mistake

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

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

Understand It with Pulse | Flag a mistake

17 **What happens to light intensity when the distance from a lamp doubles?**

- A it stays exactly the same
- B it falls to a quarter
- C it halves
- D it doubles

Understand It with Pulse | Flag a mistake

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

A the root

B the flower

C the stem

D the leaf

Understand It with Pulse | Flag a mistake

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

A phloem

B cortex

C xylem

D pith

Understand It with Pulse | Flag a mistake

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

A a higher humidity

B a higher temperature

C a lower light level

D still air around the leaves

Understand It with Pulse | Flag a mistake

21 **A pondweed plant releases 12 bubbles of oxygen in 4 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 **Which of these is a use of glucose in a plant?**

A respiration

B transpiration

C photosynthesis

D pollination

Understand It with Pulse | Flag a mistake

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

A stomata open wider in the heat

B enzymes work faster

C the plant takes in more water

D chlorophyll absorbs more light

Understand It with Pulse | Flag a mistake

24 **Where in a leaf does photosynthesis happen?**

A in the mitochondria

B in the chloroplasts

C in the nucleus

D in the vacuole

Understand It with Pulse | Flag a mistake

25 **A pondweed plant releases 24 bubbles of oxygen in 6 minutes. How many bubbles does it release per minute?**

A 8

B 4

C 5

D 3

Understand It with Pulse | Flag a mistake

# ANSWER KEY

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

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