AQA GCSE Combined Science - Trilogy | 8464

SPECIFICATION POINT 4.2.1

Principles of organisation

Past-paper questions

Tier	**Higher**
Question groups	**1**
Available paper years	**2023–2023**

Using this booklet

1. Answer the questions in order and show your working.
2. Original question numbers and marks are retained.
3. Print at actual size (100%) for measuring questions.
4. Use the companion answer booklet to check your work.

Name: _____ **Date:** _____

Whole questions are retained for context, so some parts assess other specification points. Current and legacy sources are labelled. Continue on extra paper if needed.

4.2.1 Principles of organisation

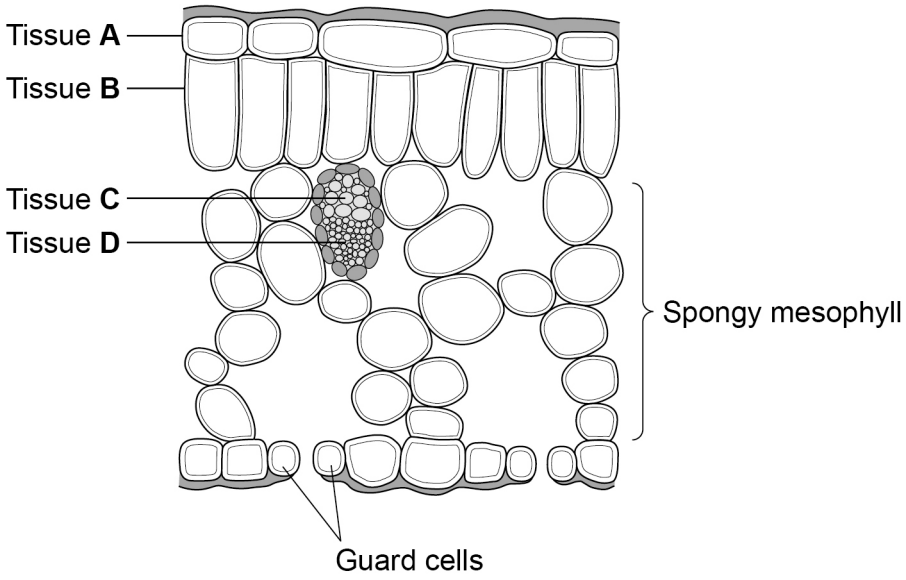
Question 01

June 2023 | 8464/B/1H | Original Q4

0 4 A leaf is a plant organ.

Figure 4 shows tissues in a leaf.

Figure 4



0 4 . 1 Which tissue is the epidermis?

[1 mark]

Tick (✓) **one** box.

A ☐ **B** ☐ **C** ☐ **D** ☐

4.2.1 Principles of organisation

Question 01 · continued

0 4 . 2 Explain how the spongy mesophyll is adapted for its function.

Use **Figure 4**.

[3 marks]

0 4 . 3 The xylem is adapted to transport water through a plant.

Explain **one** way that xylem is adapted for its function.

[2 marks]

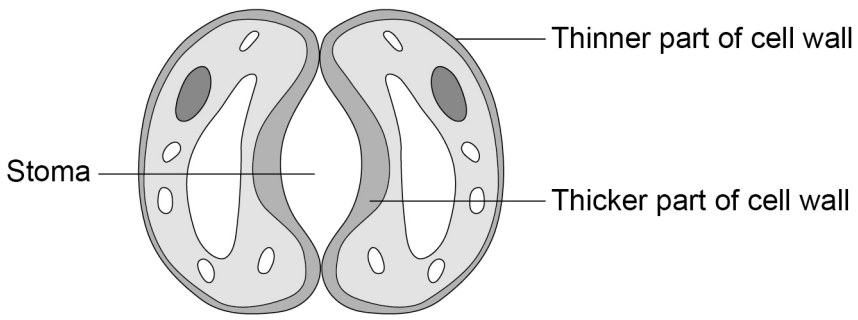
Question 4 continues on the next page

4.2.1 Principles of organisation

Question 01 · continued

0 4 . 4 **Figure 5** shows a pair of guard cells around a stoma.

Figure 5



During the day, glucose is made in the guard cells.

Describe how an increase in glucose concentration in the guard cells causes the stoma to open.

[2 marks]

8