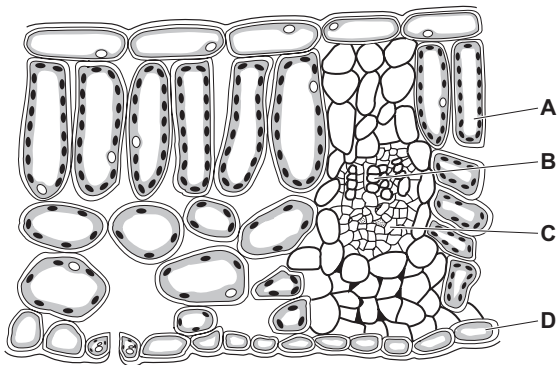


12 What is a structural feature of xylem vessels?

- A contain many mitochondria
- B made up of cells joined end to end
- C presence of cross walls
- D thin walls

9 The diagram shows part of a cross-section of a leaf.

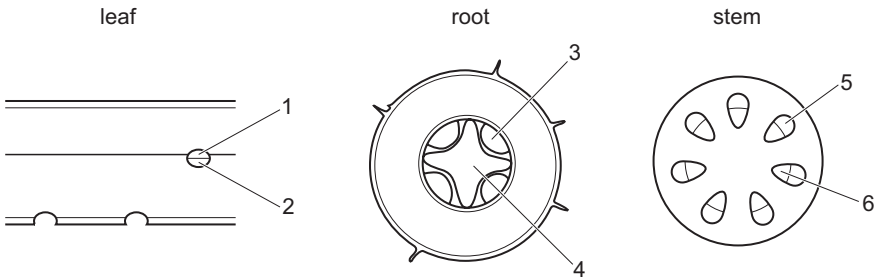
Which part is the xylem?



14 Which row shows the features of xylem vessels?

	vessel walls	mitochondria present
A	thick	yes
B	thick	no
C	thin	yes
D	thin	no

13 The diagrams show cross-sections of a leaf, a root and a stem.



NOT TO SCALE

In which row do the numbers represent the xylem in the leaf, the root and the stem?

	leaf	root	stem
A	1	3	5
B	1	4	6
C	2	3	5
D	2	4	6

5 (a) Fig. 5.1 shows a cross-section of a leaf.

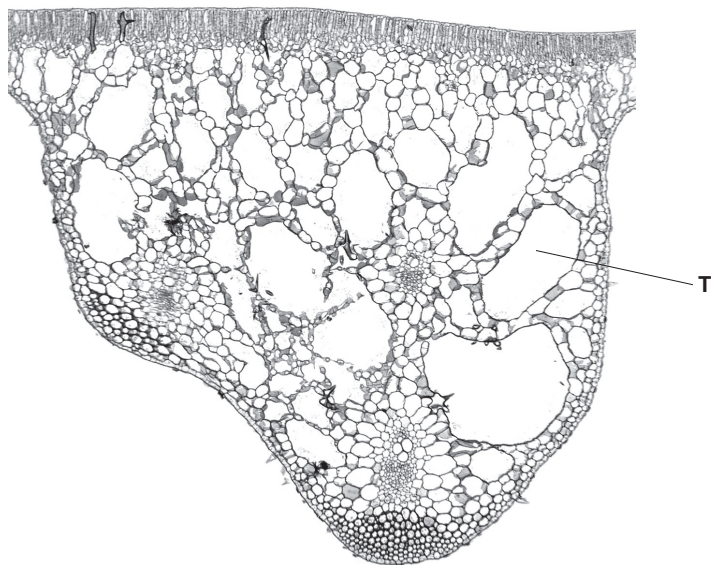


Fig. 5.1

- (i) On Fig. 5.1, draw a circle around **one** vascular bundle. [1]
- (ii) On Fig. 5.1, draw a label line and the letter **X** to identify the palisade mesophyll tissue. [1]
- (iii) State the name of the cell structure in palisade mesophyll cells where photosynthesis occurs. [1]
-
- (iv) Describe the functions of the tissues in a vascular bundle in a leaf.

[illegible]

- (b) The leaf shown in Fig. 5.1 is from an aquatic plant adapted to live in water. The leaves float on the surface of the water.
- (i) State the term used to describe plants that are adapted to live in water.
- [1]
- (ii) Identify feature **T** shown in Fig. 5.1 **and** explain how this feature adapts the leaf to float on the surface of the water.
- feature **T**
- explanation
- [2]
- (iii) Explain **one** other adaptation of this group of aquatic plants.

feature T

explanation

[2]

Explain **one** other adaptation of this group of aquatic plants.

.....

.....

..... [2]

[Total: 12]