

6 Plant structure and function

1 Name the parts of the plant shown in the drawing.

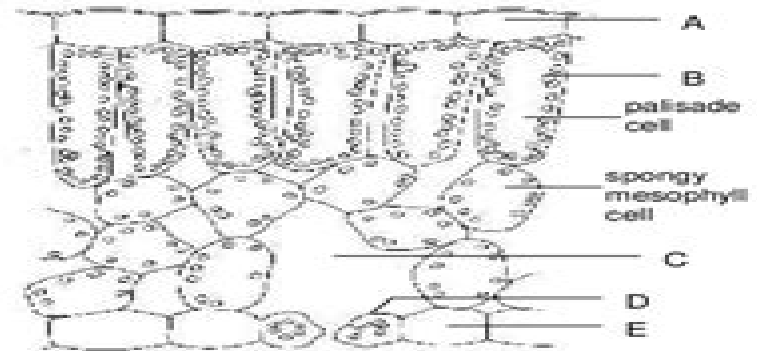
2 Match the structures stem, leaf, root, terminal bud, lateral bud to the following functions:

- (a) produces carbohydrates
- (b) carries water to leaves
- (c) absorbs sunlight
- (d) continues growth in height
- (e) absorbs mineral salts
- (f) makes branches
- (g) anchors plant in soil
- (h) conducts food to roots
- (i) evaporates water
- (j) produces new leaves
- (k) spaces out leaves
- (l) produces flowers
- (m) absorbs carbon dioxide
- (n) absorbs water.



3 The drawing represents a vertical section through a leaf x 200

- (a) Name the parts indicated by the letters A - E.
- (b) What differences can you see between the palisade cells and the spongy mesophyll cells
- (c) What is the function of C?
- (d) (i) Name the features represented in the diagram, which are thought to adapt the leaf to its function in photosynthesis.
(ii) Say how these features help to promote this process.
- (e) State three other structural features, not shown in the drawing, which are thought to be adaptations to the process of photosynthesis in most leaves.
Explain briefly how these features contribute to the efficiency of photosynthesis.



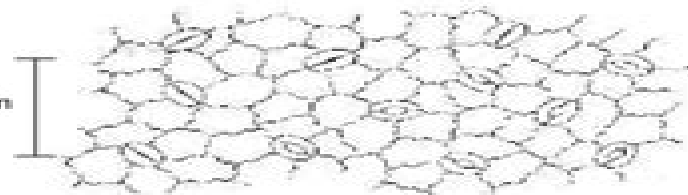
4 Which of the following are most likely to be true? When the stomata are open, the leaf is

- (a) absorbing oxygen
- (b) giving off water vapour
- (c) absorbing carbon dioxide
- (d) giving off carbon dioxide
- (e) giving off oxygen

5 (a) How many stomata are shown in this drawing of leaf epidermis?

- (b) How many of the stomata are open?
- (c) How many are likely to be open at night?
- (d) What is the magnification of the drawing?

0.1 mm



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IM Harris



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