

(b) Fig. 1.1 shows a section through part of a leaf.

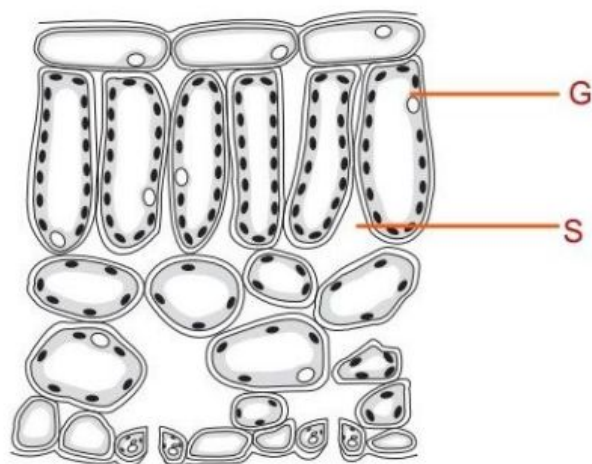


Fig. 1.1

(i) On Fig. 1.1 draw:

- a label line to identify one guard cell and label it G.
- a label line to identify one of the stomata and label it S.

[2]

(ii) State **one** function of stomata.

Transpiration / Gases exchange

[1]

[Total: 9]

- (ii) State **one** way in which endangered species can be conserved.

Remove vectors of disease

Captive breeding

Monitoring conservation areas

[1]

[Total: 10]

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- (a) (i) State the **two** times, on Fig. 9.1, at which the carbon dioxide concentration in the air was 37 arbitrary units.

02:00 and 05:00

[1]

- (ii) Calculate the difference in the carbon dioxide concentration in the air between 04:00 (sunrise) and 12:00 (midday) on Fig. 9.1.

Space for working.

11

arbitrary units [1]

- (iii) Explain why the concentration of carbon dioxide decreases between 04:00 and 09:00.

Sunlight is present

Carbon dioxide is used for photosynthesis

Photosynthesis is using carbon dioxide faster than respiration can provide it

[3]

- (b) State **two** environmental factors that would affect the results of this investigation.

1 Temperature

2 Wind

3. Rain

4. Humidity

[2]

[Total: 7]