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Leaf Structure and Function

Question Paper

Level	Edexcel
Subject	Biology
Exam Board	GCSE(9-1)
Topic	Plant Structures and Their Functions
Sub Topic	Leaf Structure and Function
Booklet	Question Paper

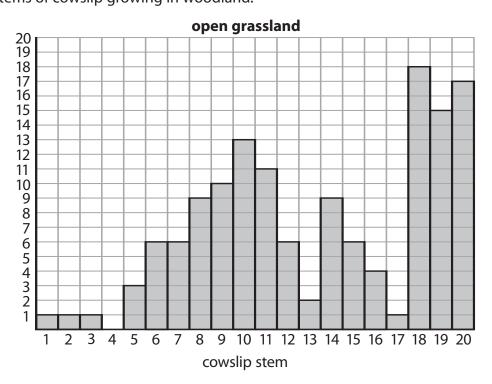
Time Allowed: 20 minutes

Score: /16

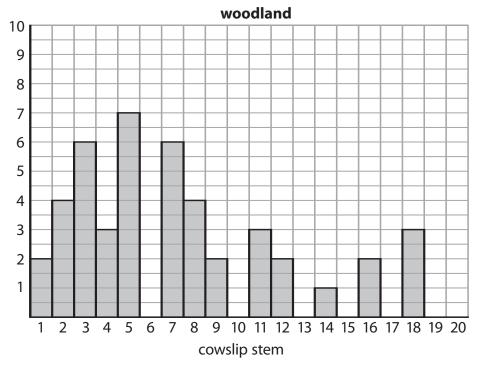
Percentage: /100

Cowslips are flowering plants.
 Each cowslip stem can produce different numbers of flowers.
 The graphs show the number of flowers on 20 stems of cowslip growing in open grassland and 20 stems of cowslip growing in woodland.

number of flowers per stem



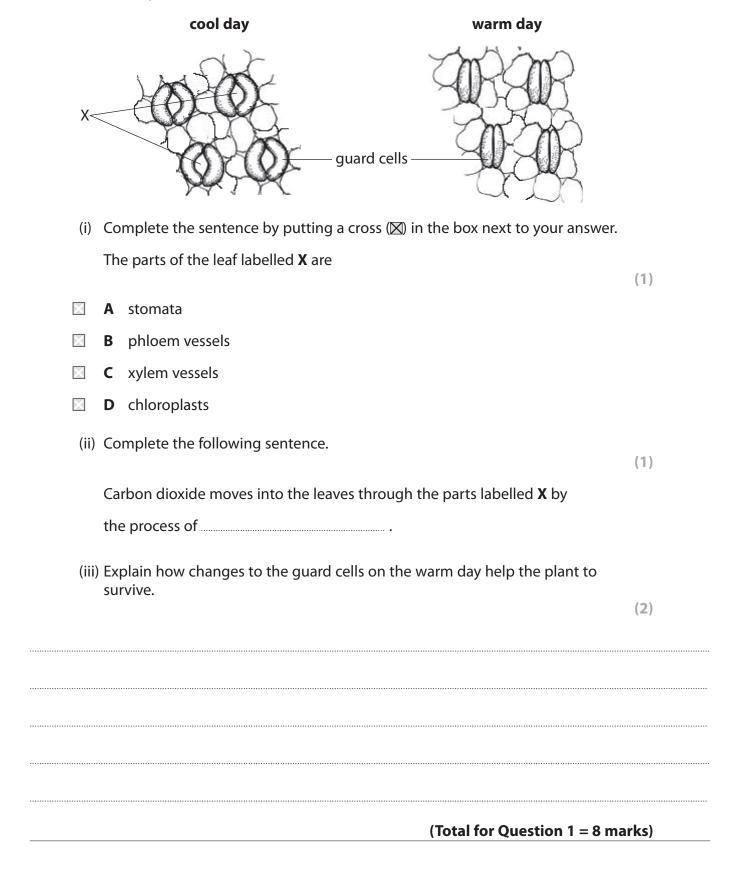




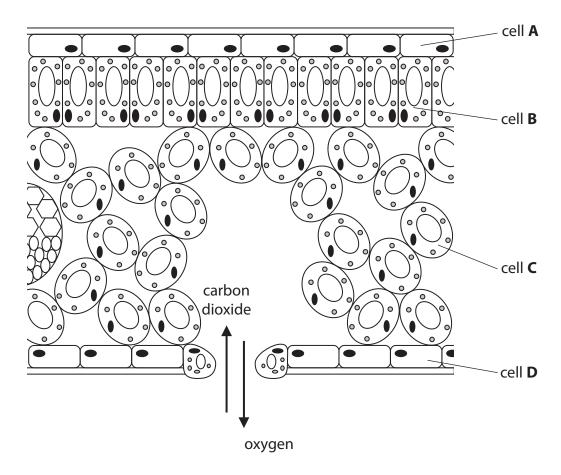
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(a)	(i)	In the open grassland, 60% of cowslips have stems with five or more flowers.		
		Use the information from the graph to calculate the percentage of cowslips in the woodland that have stems with five or more flowers.	(2)	
			(2)	
			%	,
	(ii)	Suggest reasons why there are more stems with five or more flowers in the open grassland.		
		open grassiand.	(2)	

(b) The diagrams show the underside of a leaf of a cowslip plant on a cool day and on a warm day.



2 (a) The diagram shows a section through a leaf.



(i) Complete the sentence by putting a cross (⋈) in the box next to your answer.The cell that will make the most glucose is

(1)

- A
- \boxtimes B
- \times C
- \boxtimes D

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(ii) Describe how carbon dioxide enters the leaf.	(2)
(iii) Describe the process that takes place in the leaf to produce oxygen.	
(iii) Describe the process that takes place in the leaf to produce oxygen.	(3)

(b) Root hair cells take in water and mineral ions from the soil.

Draw **one** straight line from each substance to the process by which it enters the root hair cell.

(2)

substance

p ocess

transpiration

osmosis

photosynthesis

active transport

respiration

(Total for Question 2 = 8 marks)