

Question Number	Answer	Acceptable answers	Mark
<b>1(a)(i)</b>	3 ( $\div$ 20) (X100) (1)  15 (%)	<b>Accept 3</b> $\div$ 13  Full marks for correct bald answer	<b>(2)</b>

Question Number	Answer	Acceptable answers	Mark
<b>1(a)(ii)</b>	Any two of the following:  can photosynthesise more (1)  higher light intensity / more light (1)  more water / rain (1)  warmer (1)  more mineral ions / nutrients(1)	accept: reverse argument for woodland  Accept:  more competition from trees (for water / mineral ions) (1) bigger leaves (1) less flowers eaten (1) different genes (1)	<b>(2)</b>

Question Number	Answer	Acceptable answers	Mark
<b>1(b)(i)</b>	<b>A</b> stomata		<b>(1)</b>

Question Number	Answer	Acceptable answers	Mark
<b>1(b)(ii)</b>	diffusion / diffusing /	Accept description of diffusion eg carbon dioxide molecules move from an area of high concentration to an area of low concentration  accept diffuse	<b>(1)</b>

Question Number	Answer	Acceptable answers	Mark
<b>1(b)(iii)</b>	<ul style="list-style-type: none"> <li>• guard cells change shape / (guard cells) close stomata /guard cells close (1)</li> <li>• to reduce water loss /rate of transpiration reduced (1)</li> </ul>	<p>accept stop water loss / keep water in</p> <p>Ignore get more water</p>	<b>(2)</b>

Total for Question 1 = 8 marks

Question Number	Answer	Acceptable answers	Mark
<b>2(a)(i)</b>	B		<b>(1)</b>

Question Number	Answer	Acceptable answers	Mark
<b>2(a)(ii)</b>	Any two from the following: <ul style="list-style-type: none"> <li>• diffusion (1)</li> <li>• from an area of high concentration to an area of low concentration/down a concentration gradient (1)</li> <li>• through stoma / stomata (1)</li> </ul>	Accept pores / between guard cells Ignore through guard cells	<b>(2)</b>

Question Number	Answer	Acceptable answers	Mark
<b>2(a)(iii)</b>	Any three from the following: <ul style="list-style-type: none"> <li>• (by) photosynthesis (1)</li> <li>• ref to chloroplast / chlorophyll (1)</li> <li>• requires carbon dioxide and water (1)</li> <li>• light (energy) needed (for photosynthesis)(1)</li> <li>• (to produce) glucose (1)</li> </ul>	Ignore incorrect balancing of equations throughout Reject (and) respiration Accept if written on arrow in word / formula equation Accept correct formulae word / formula equation Accept if written on arrow in word / formula equation Reject energy is created / produced Accept sugar from word / formula equation	<b>(3)</b>

Question Number	Answer	Acceptable answers	Mark
<b>2(b)</b>	water ————— osmosis (1)	3 lines, 1 correct = 0 mark 3 lines, 2 correct = 1 mark 4 lines, 1 correct = 0 mark 4 lines, 2 correct = 0 mark	
	mineral ions      \\ active transport (1)		<b>(2)</b>

**(Total for question 2 = 8 marks)**