

Revision Sheet

IGCSE Biology · Unit 8 Transport in plants

6 vocabulary items · 25 marks of exam questions (6 questions)

Part 1 · Vocabulary review answer key. Section A wants the exact English spelling.

Question	Answer	Marks
1	vessels	1
2	transpiration	1
3	water vapour	1
4	wind speed	1
5	humidity	1
6	sinks	1

Multiple Choice Answers

Q7: C

Q8: C

Multiple Choice Answers

Q9: D

Multiple Choice Answers

Q10: D

11(a)(i)	amino acids circled ; sucrose circled ;
11(a)(ii)	root hair (cell) ; correct label line ;
11(b)(i)	movement of particles through a cell membrane ; from a (region of) low concentration to a (region of) high concentration / against a concentration gradient ; using energy from respiration ;
11(b)(ii)	support (described) ;
11(c)	<i>any two from:</i> wind (speed) ; temperature ; AVP ; e.g. humidity

12(a)(i)	<p><i>any four from:</i></p> <ol style="list-style-type: none"> 1 ref to <u>translocation</u> ; 2 carbohydrates / glucose / sugars / amino acids, made in the leaves OR ref to photosynthesis in leaves ; 3 glucose / carbohydrates, converted to sucrose ; 4 leaves act as a source and roots act as a sink ; 5 phloem transports <u>sucrose</u> / <u>amino acids</u> ; 6 sucrose / (named) sugars, collect above the girdle ;
12(a)(ii)	<p>xylem is still intact / idea that xylem is further inside the trunk ; mineral ions transported by xylem ;</p>
12(b)	<p><i>any three from:</i> <i>idea that</i> glucose required, for (aerobic) respiration / to release energy / for ATP production ; ref. to active transport ; to transport mineral ions, from low to high concentration / against their concentration gradient ;</p>
12(c)	$6\text{CO}_2 + 6\text{H}_2\text{O} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2 ;;$