1

1

1

1

1

1

1

1

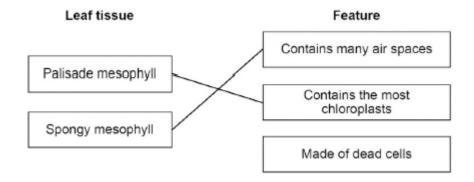
1

## Mark schemes

## Q1.

(a) organ

(b)



do not accept more than one line from a box on the left 1

- (c) transpiration
- (d) lignin
- (e) (so) light can reach (palisade / spongy) mesophyll

  allow (so) light can reach (other / lower) layers /
  tissues

  allow (so) light can reach other / lower cells

  allow (so) light can reach chloroplasts / chlorophyll
  ignore (so) light can get through

for photosynthesis

(f) stomata

must be in this order

guard cells

- (g) (permanent) vacuole
- (h) active transport
- (i) mitochondria

[12]

<b>Q2.</b> (a)	oxygen		
(/		allow O <sub>2</sub>	1
	glucose		
		allow C <sub>6</sub> H <sub>12</sub> O <sub>6</sub>	1
		in either order	
(b)	xylem		1
	stomata		1
	phloem		•
	'	must be in this order	1
	310		
(c)	254		1
	1.22047		1
	1.2		•
		allow an answer of 0.82 if numerator and denominator reversed	
			1
(d)	each leaf of species <b>A</b> has more stomata		1
(e)	increased	temperature	1
(f)	С		1
(g)	(spines) stop the plant being eaten		
	or		
	(spines) prevent animals damaging the plant  allow any named animal		
		allow to reduce water loss	1
(h)	it looks like	e the hornet	1
		allow animals think it is a hornet	1

(so) animals avoid the risk of being stung

allow (so) animals avoid the risk of pain