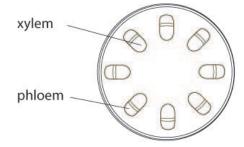
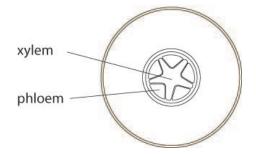
Answers to end-of-chapter questions Chapter 8: Transport in plants

- 1 a xylem vessel
 - b xylem vessel
 - c lignin
 - d root hair
 - e transpiration
 - f stoma
 - g potometer
- 2 a translocation
 - b phloem
 - c wilting
 - d cohesion
- 3 a and b root hairs liquid root cortex cells liquid xylem liquid leaf mesophyll cells liquid air spaces in leaf gas stomata gas
- 4 a a section cut across something
 - b, c and d





- a water enters by osmosis;
 down water potential gradient / from high
 to low water potential;
 through partially permeable cell membrane; [3]
 - b 20; [1]
 - c as wind speed increases water uptake increases; any use of manipulated figures; (e.g. doubling of wind speed from 2 to 4 metres per second results in 1.7 times the rate of water uptake); [2]
 - d light intensity;
 temperature;
 humidity; [max 2]