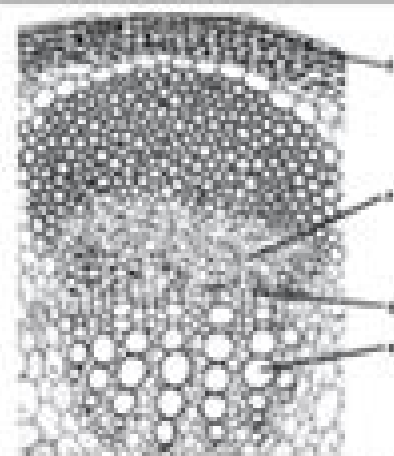


Identify the following key terms from their definitions:

1. What type of bond forms between water molecules and a surface
2. The impermeable strip of suberin found in the endodermis
3. The continual column of water through the xylem vessels that occurs due to hydrogen bonds
4. The movement of water through the cortex of the roots via cohesion
5. The ability of water molecules to move from one area to another, sometimes dependent on the concentration of solute
6. A solution that has a higher concentration of solutes than the cytoplasm of a cell, water will exit the cell via osmosis
7. The part of a plant is where replacement cells can be formed from partially differentiated ones
8. The force of water molecules grouping at the base of the stem where ions have attracted a high concentration of water. Helps to push water up the xylem



This is a cross section of a stem. Identify E-D-A.

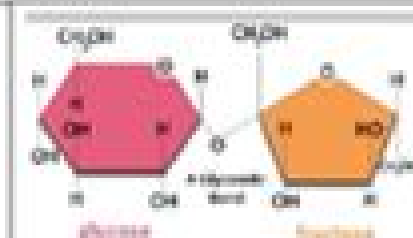
E =

D =

C =

B =

What is the grouping of E, D, A called?



1. What molecule is this?
2. Name the type of biological molecule?
3. What bond is formed between the monomers?
4. monomers?
5. What reaction would need to occur to break this molecule?
6. What type of glucose is this?

Potometers are used to measure the _____ of water lost from a plant sample. Although lots of this water loss will be due to _____, some water loss can be attributed to _____ as a reactant. When preparing a potometer, the stem should be cut _____ and at an angle to prevent a break in the _____ between water molecules caused by _____ bonds. The potometer should also be airtight so that water _____ cannot escape and affect the measurement of water moving into the plant.

A number of questions will ask you to calculate the volume of water lost over a period of time/ the rate of water loss. To convert the distance moved by the _____ to volume you need to use the equation _____. This will give the _____ of a cylinder and therefore the volume of water that has moved into the plant. To measure the rate of _____ the volume of water taken in by the plant should be divided by the time taken for this to occur. This is usually given in the units _____ (centimetres cubed per minute).

Match the error to why it is an issue

1. Not using the same species/surface area of leaf when repeating an experiment
2. Not performing enough repeats in an experiment
3. Not ensuring that the potometer is airtight
4. Using a capillary tube for a scale that is too large in diameter
5. Not using the reservoir to reset the bubble after a use



Why it is an issue (POTM)

- A. Zero error
- B. Systematic error
- C. Anomalies are difficult to identify
- D. An invalid experiment
- E. Precision and accuracy of the data will be restricted

True or false (correct any incorrect details!)

Transpiration is the movement of water up the xylem through adhesion, cohesion and root pressure

Phloem contains fewer organelles and less cytoplasm to reduce resistance to flow of assimilates.

Active loading requires ATP for the proton pumps to form a concentration gradient from companion cells into phloem cells.

Transpiration rate can be increased through temperature, stomatal density, decrease in humidity and cross sectional area of stomata

Mass flow occurs because of changes in water potential and hydrostatic pressure in the phloem.

Xylem have spirals of lignin running diagonally to maximise strength, allow flexibility and ensure water proofing

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**Tracey Greenwood, Kent Pryor, Lissa
Bainbridge-Smith, Richard Allan**



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