2

3

1

Mark schemes

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- (a) 1. Buffers changes in temperature;

 Accept descriptions of buffering changes in temperature, eg resists temperature changes
 - 2. (Provides a) cooling effect (via evaporation);

(b) 1. Evaporation/transpiration (from the porous pot);

2. Tension created moves water (upwards);

Accept 'negative pressure' for tension or 'water pulled' or 'suction'.

Ignore adhesion but reject mark point 3 if adhesion used to describe attraction between water molecules.

3. Cohesion maintains the column of water

OR

Cohesion is due to hydrogen bonds between water (molecules);

(c) 0.8/0.85/0.848/0.8478 (using 3.14);

OR

0.8482 (using π on calculator)

[6]