A Level Biology A

H420/01 Biological Processes

Question Set 10

10 (a) Plants lose water by transpiration.

The rate of transpiration varies between different species of plant.The rate of transpiration can be measured using a potometer.

Plan an investigation into the rate of transpiration in two species of plant that would allow valid data to be collected.

Details of how to set up a potometer are not required. **[6]**

10 (b) Plant cell walls are made of cellulose. Cellulose is a polymer of β-glucose.

Give **three** properties of cellulose that make it suitable as the basis of plant cell walls.

[3]

10 (c) Cellulose cannot be digested by animals. Some mammals have bacteria in their stomachsthat produce enzymes that can digest cellulose.

Explain whether the action of these enzymes is intracellular or extracellular. **[1]**

Total Marks for Question Set 10: 10

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