

IB BIOLOGY

Mark Scheme

Transport in xylem 9.1 WORKSHEET 2

Q 1. Transport in the vascular plants

Q 1.1 Multiple choice

1. A
2. C
3. A

Q 1.2 Short-answer question

1. a. reduced flow through xylem vessels during daylight hours
b. reduced flow in response to reduced water potential
c. apical meristem closing
d. embolism
e. shoot wilting (drooping of leaves)
f. reduced height (reduced biomass)
g. C₃ and C₄ metabolism in shoots can produce alcohol during night
h. C₃ produces alcohol in shoots and leaves during daylight

(4 marks)

Q 1.3 Short-answer question

1. a. water moves from soil through the vascular tissue (xylem) in the roots to the leaves
b. water potential gradient (lower water potential in leaves) is needed
c. transpiration in leaves (water evaporation) creates a pull
d. cohesion-tension theory
e. water that is pulled up through the xylem from the roots to the leaves
f. water moves through pores (stoma) found in the leaf (epidermis) and guard cells
g. water potential gradient (soil to leaf)
h. cohesion-tension theory
i. cohesion between the molecules of water (hydrogen bonds) and adhesion
j. pressure in the leaf is reduced and water molecules are pulled up from
k. pressure in the soil is reduced and water molecules are pulled up from

(6 marks)

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M Planty



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