#### Plant nutrition and transport

#### CORE questions

#### Core 1

(a) The chemical equation for photosynthesis shown below is incomplete.

6H<sub>2</sub>O C<sub>4</sub>H<sub>12</sub>O<sub>6</sub> water glucose

- (i) Complete the equation in either symbols or words. [2]
- (ii) State the source of energy for this reaction.

[11]

(iii) Name the plant pigment necessary for this reaction.

133

(iv) Which mineral is needed by a plant to form this pigment?

111

(b) (i) Name the tissue in which the sugar produced in photosynthesis is carried to other parts of the plant.

1(1)

(ii) In many plants some of the sugar formed in photosynthesis is converted to starch for storage. Explain the advantage of storing starch rather than sugar.

.....[2]

(iii) Name the carbohydrate, formed from sugar produced in photosynthesis, which is used to build cell walls.

[1]

[Total : 9]

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