

6 Humans have found that plants are a valuable source of cellulose, starch and fibres.

(a) The table below lists some statements about polysaccharides.

Indicate whether each statement is true or false by placing a cross (X) in the appropriate box.

(5)

Statements	True	False
Polymer of glucose	<input type="checkbox"/>	<input type="checkbox"/>
Molecule contains α and β glucose	<input type="checkbox"/>	<input type="checkbox"/>
Glycosidic bonds present	<input type="checkbox"/>	<input type="checkbox"/>
Molecule may have side branches	<input type="checkbox"/>	<input type="checkbox"/>
Molecule can form hydrogen bonds with adjacent molecules	<input type="checkbox"/>	<input type="checkbox"/>

(b) The clear window in this sandwich packaging is made from starch rather than plastic.

clear window
made from starch



Suggest how this use of starch, rather than plastic, may contribute to **sustainability**.

(2)

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(c) Plant stems contain xylem vessels and sclerenchyma fibres.

Give **one** similarity and **one** difference between xylem vessels and sclerenchyma fibres.

(2)

Similarity

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Difference

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(Total for Question 6 = 9 marks)

