

5 Plants are multicellular organisms that contain organic molecules such as starch and cellulose.

(a) Multicellular organisms contain organs and tissues.

Suggest why organs are considered more complex than tissues.

(2)

*** (b) (i)** Compare the structure of a cellulose molecule with the structure of starch.

(4)



- (ii) Cellulose molecules form cellulose microfibrils.
Explain how the arrangement of cellulose microfibrils contributes to the physical properties of plant fibres.

(2)

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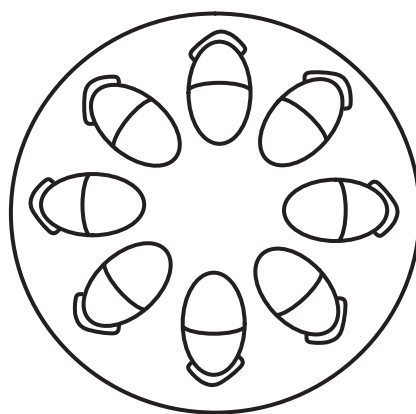
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- (c) (i) The diagram below shows a transverse section through a stem.
On the diagram, put a label **X** to indicate where xylem vessels are present.

(1)



- (ii) Give **two** functions of xylem vessels.

(2)

1

2

(Total for Question 5 = 11 marks)

