

## AS Level Biology A H020/02 Depth in biology

**Question Set 2** 

**1.** (a) A group of students wanted to observe the position of xylem vessels in the leaf stalks (petioles) of celery.

Describe a procedure they could use to do this.

(b) Water Starwort is a hydrophyte belonging to the genus *Callitriche*. It is an aquatic plant which has its stems fully submerged in water.

[2]

[3]

Cholla is a cactus belonging to the genus *Cylindropuntia*. It can grow over 4 metres tall.

In the space provided below, give **one** way in which you would expect the walls of the xylem vessels in the stems of Water Starwort and the walls of xylem vessels in the stems of Cholla,to differ from those of a herbaceous dicotyledonous plant growing in a deciduous woodland.

Water Starwort	
Cholla	101
	[2]

(c) Xylem and phloem are two vascular tissues found in plants.

State **one** similarity and **two** differences between the structure of xylem and phloem.

Similarity1
Difference 1
Difference 2

## **Total Marks for Question Set 2: 7**



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