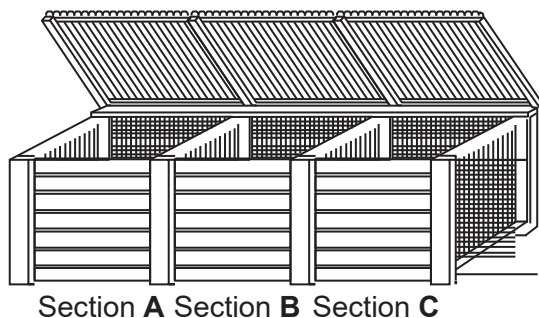


## **GCSE Biology A (Gateway)**

**J247/02 B4-B6 and B7 Foundation (Foundation Tier)**

### **Question Set 14**

- 1 A gardener buys a composter to decay plant material as quickly as possible.  
The composter has three sections.



She designs an experiment to see if watering makes the plant material decay faster.  
She waters:

- Section **A** once a week
- Section **B** once a month
- Section **C** is not watered.

- (a) The gardener wants valid results.

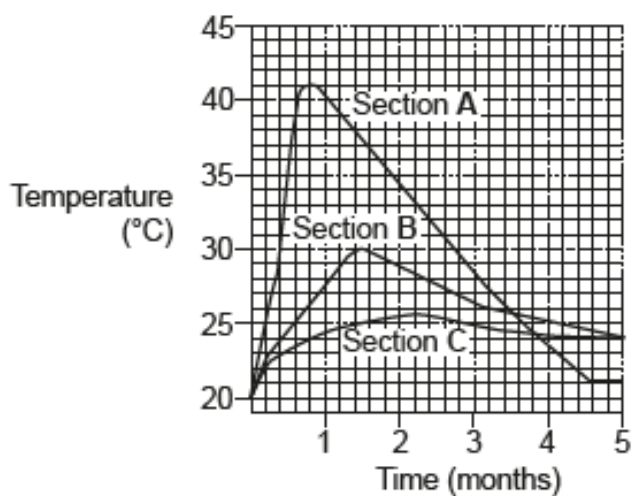
Explain **one** factor that the gardener should keep constant.

[2]

- (b) The gardener measures the temperature in each section for five months.

She knows that heat is given off when plant material decays.

The graph shows her results.



- (i) Write down **two** differences between the change in temperature in Section **A** and the change in temperature in Section **C**.

1

2

[2]

- (b) (ii) The gardener decides that she should water all sections every week.

Explain why she decides this.

[1]

- (c) Each section of the composter has holes in it to let oxygen in.

Explain why this helps the material to decay.

[2]

**Total Marks for Question Set 14: 7**

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