

Combined Science
PAPER 4
Foundation Tier

Diagram Booklet

In the boxes below, write your name, centre number and candidate number.

Surname					
Other names					
Centre Number					
Candidate Number					

INSTRUCTIONS

There may be spare copies of some diagrams in case you need them.

THIS DIAGRAM BOOKLET MUST BE RETURNED WITH THE QUESTION PAPER AT THE END OF THE EXAMINATION.

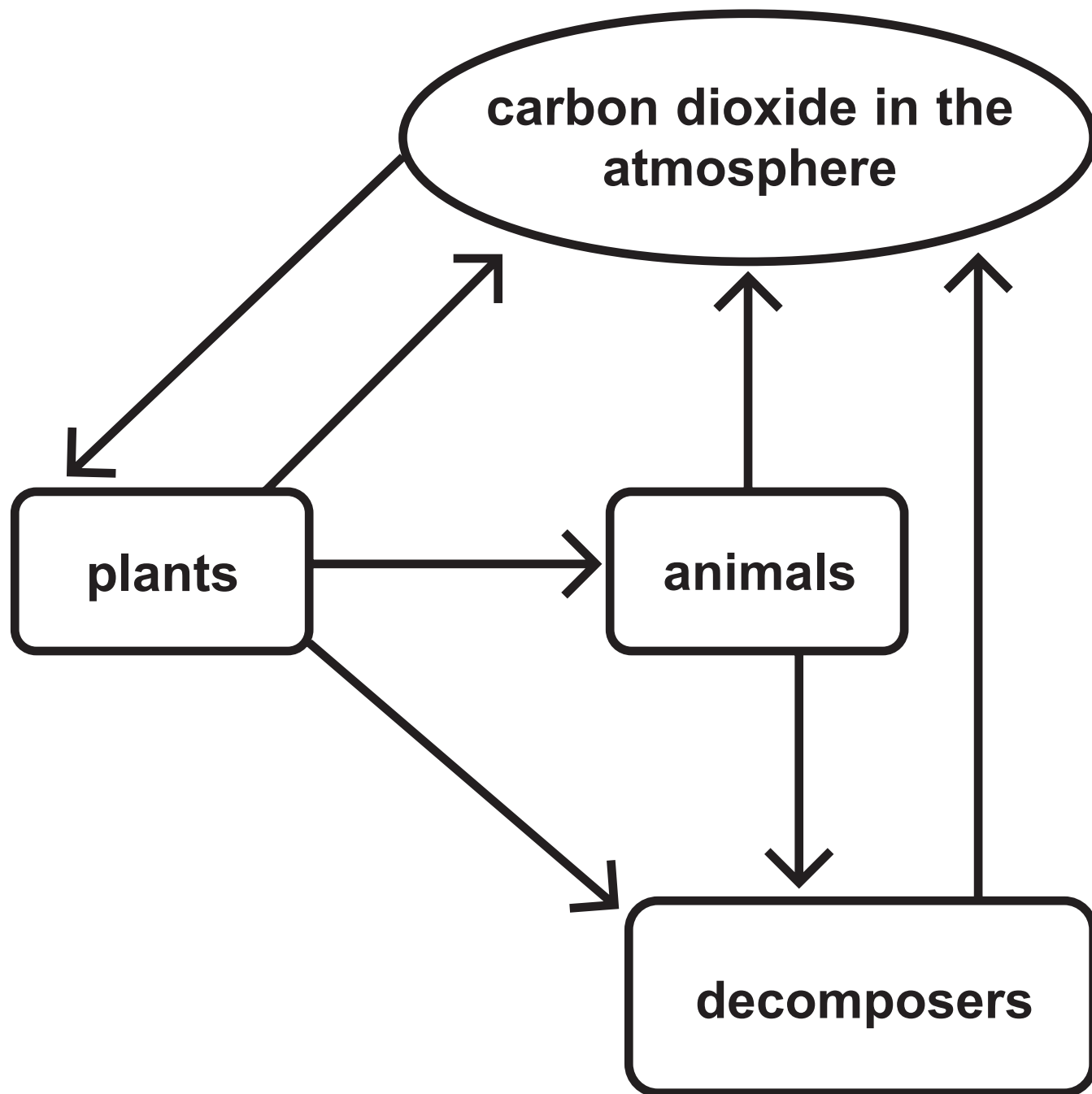
Contents

Page

4	Question 1(a)
5	Question 2(a)(i)
6	Question 2(a)(i) (Spare copy)
7	Question 2(a)(ii)
8	Question 3(a)
9	Question 3(b)
10	Question 3(c)
11	Question 4(a)
12	Question 4(a)(ii)
13	Question 5(a)
14	Question 5(b)
15	Question 5(c)
16	Question 6(a)
17	Question 6(c)

Question 1(a)

Figure 1



Question 2(a)(i)

part of the blood

plasma

red blood
cell

function

produces oestrogen

transports dissolved urea

contains haemoglobin

produces antibodies

surrounds and digests
foreign cells

Question 2(a)(i)

part of the blood

plasma

red blood
cell

function

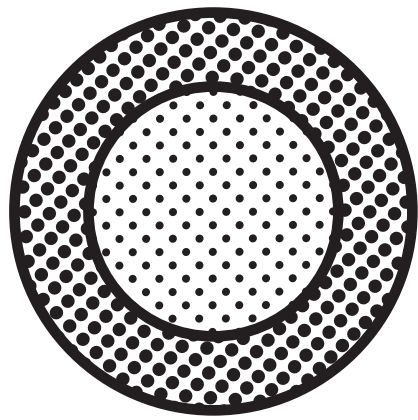
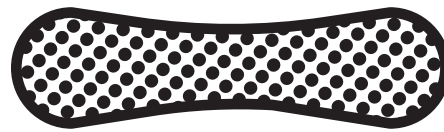
produces oestrogen

transports dissolved urea

contains haemoglobin

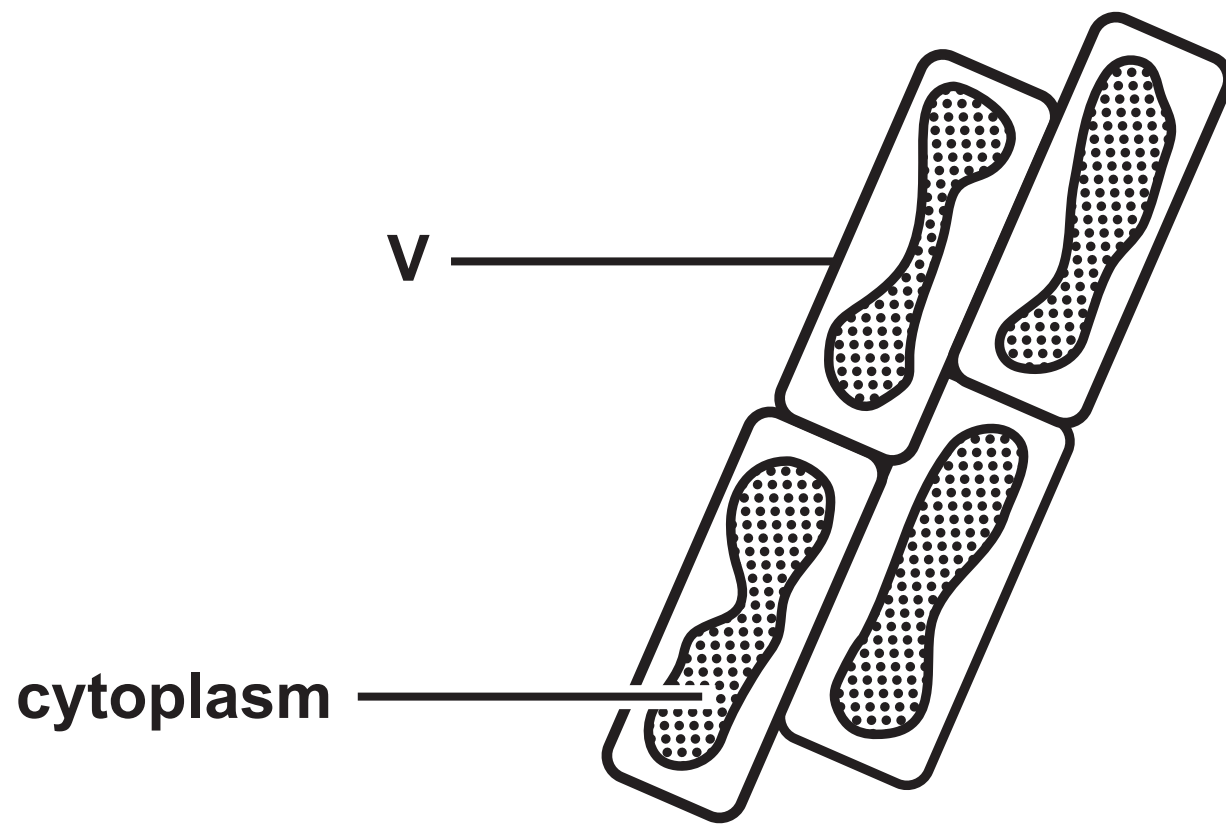
produces antibodies

surrounds and digests
foreign cells

Question 2(a)(ii)**Figure 2****plan view****side view**

Question 3(a)

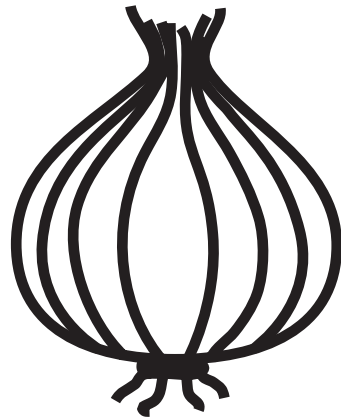
Figure 3



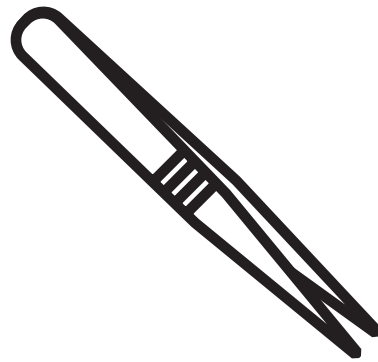
Question 3(b)

Figure 4

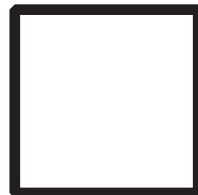
onion



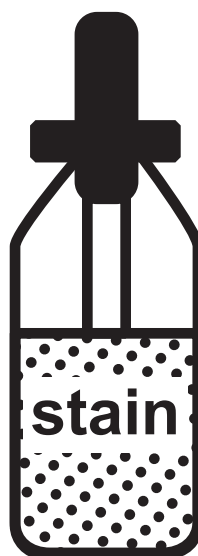
tweezers



cover slip



bottle of stain



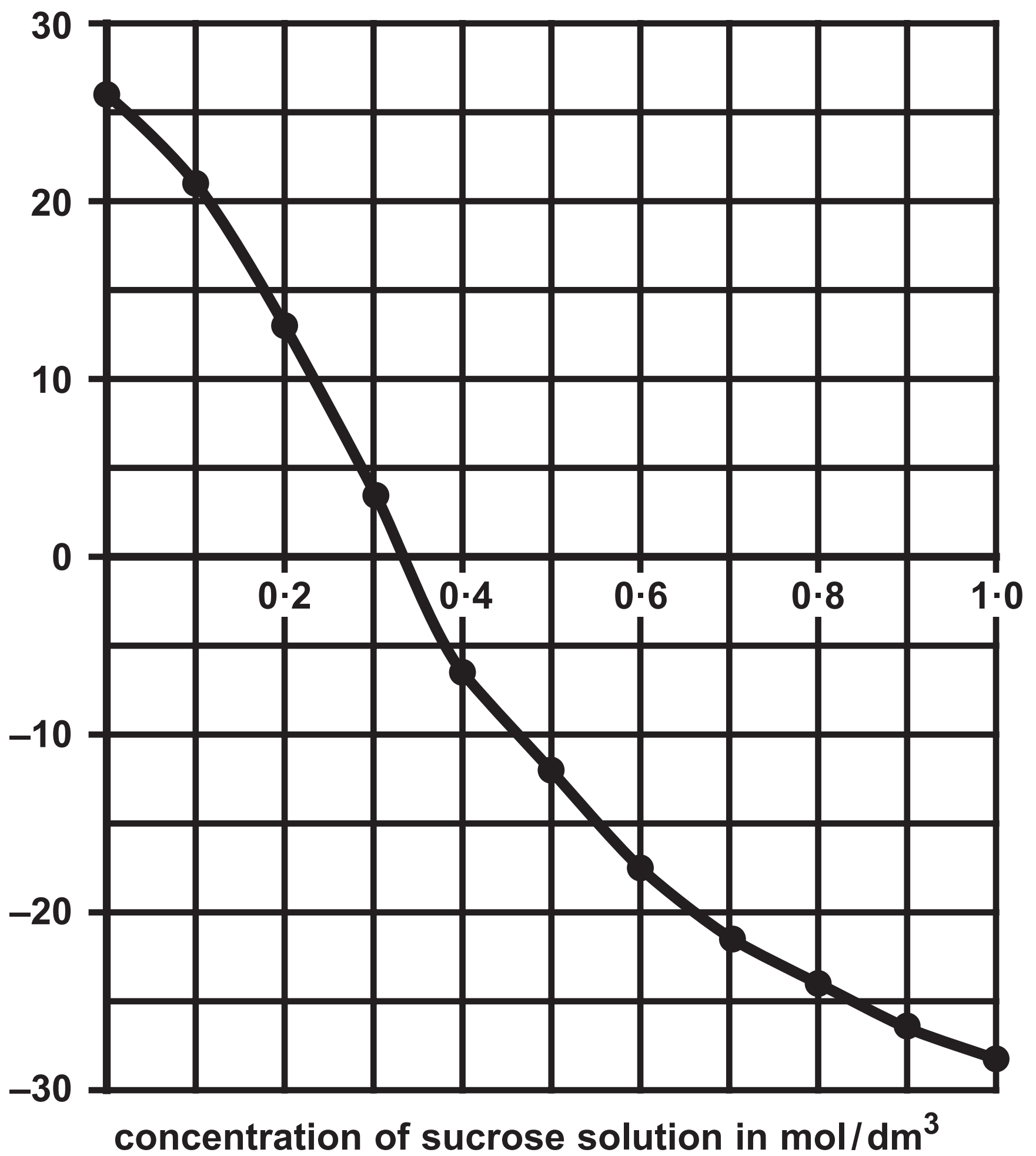
microscope slide



Question 3(c)

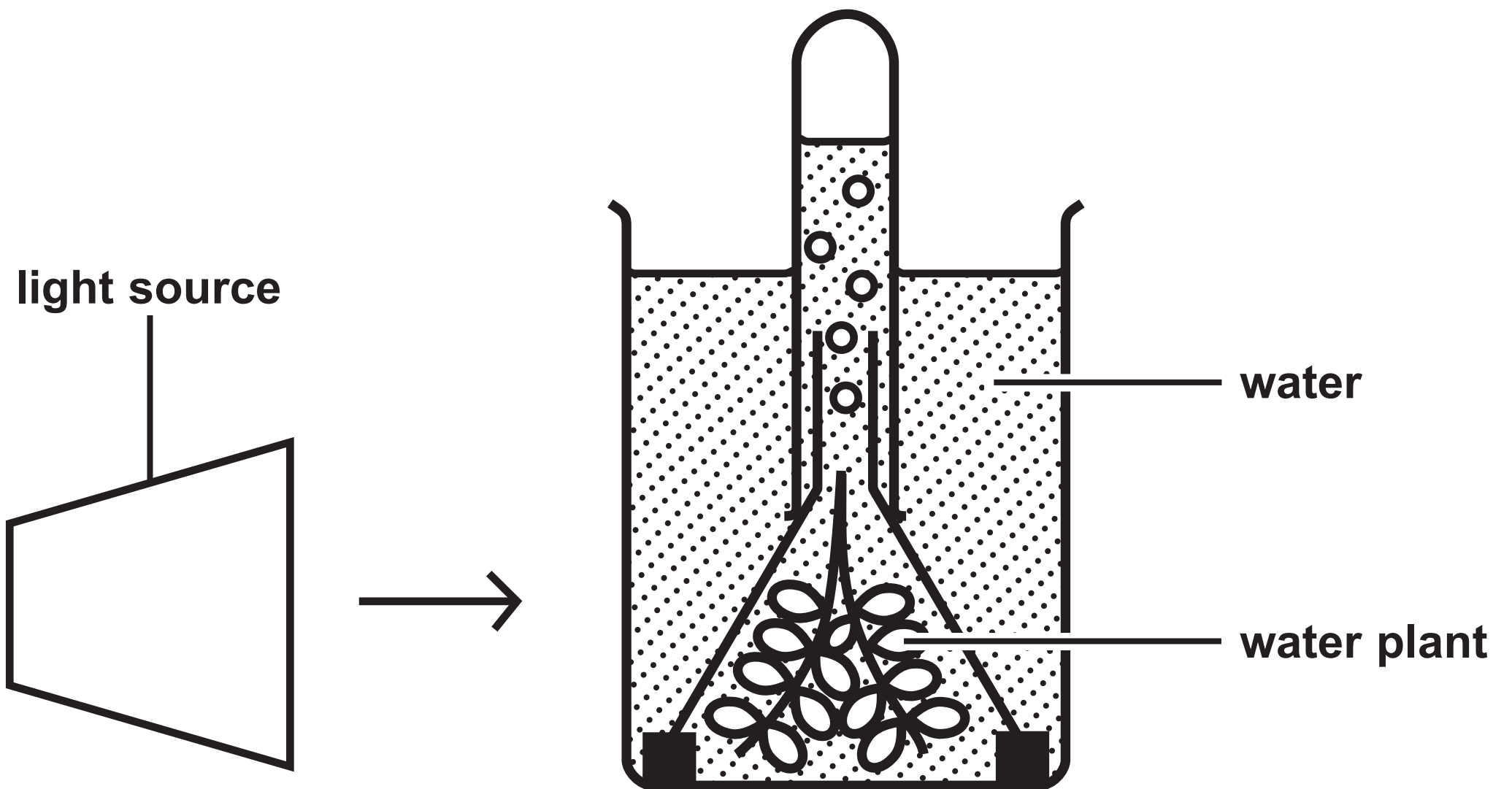
Figure 5

percentage
change
in mass



Question 4(a)

Figure 6



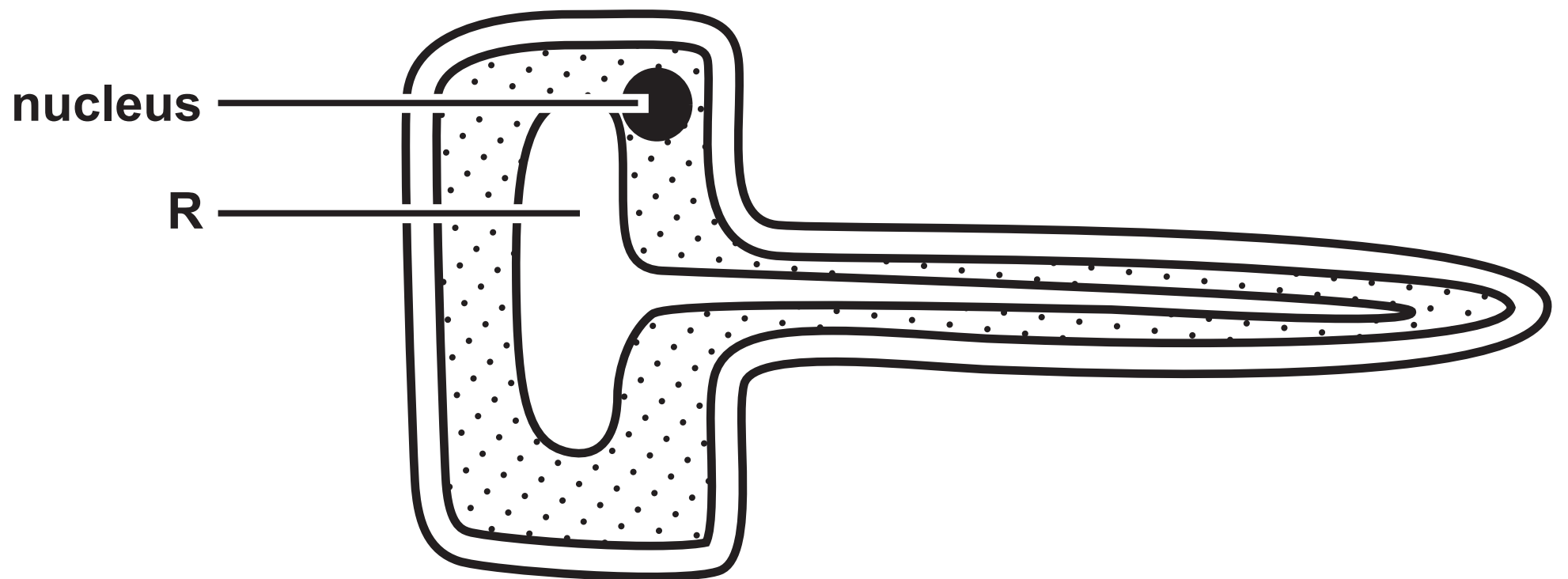
Question 4(a)(ii)

Figure 7

light intensity in arbitrary units	rate of photosynthesis in bubbles per minute
25	19
31	43
39	46
50	95
69	125
100	222

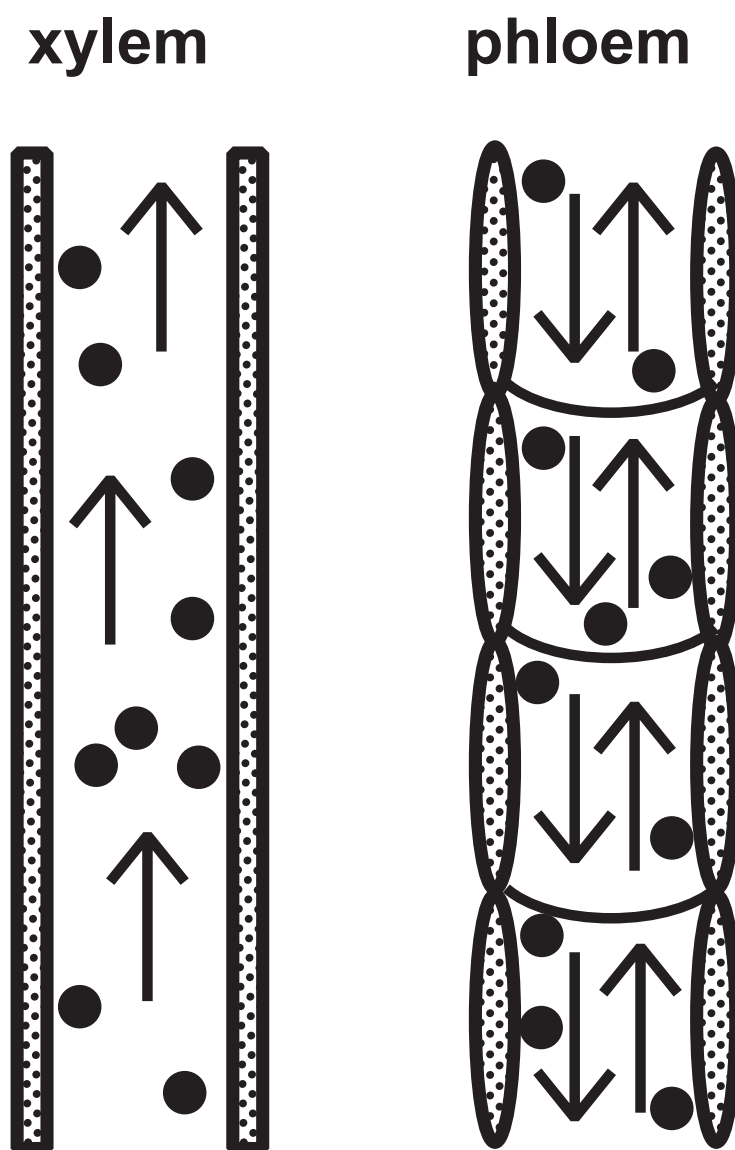
Question 5(a)

Figure 8



Question 5(b)

Figure 9



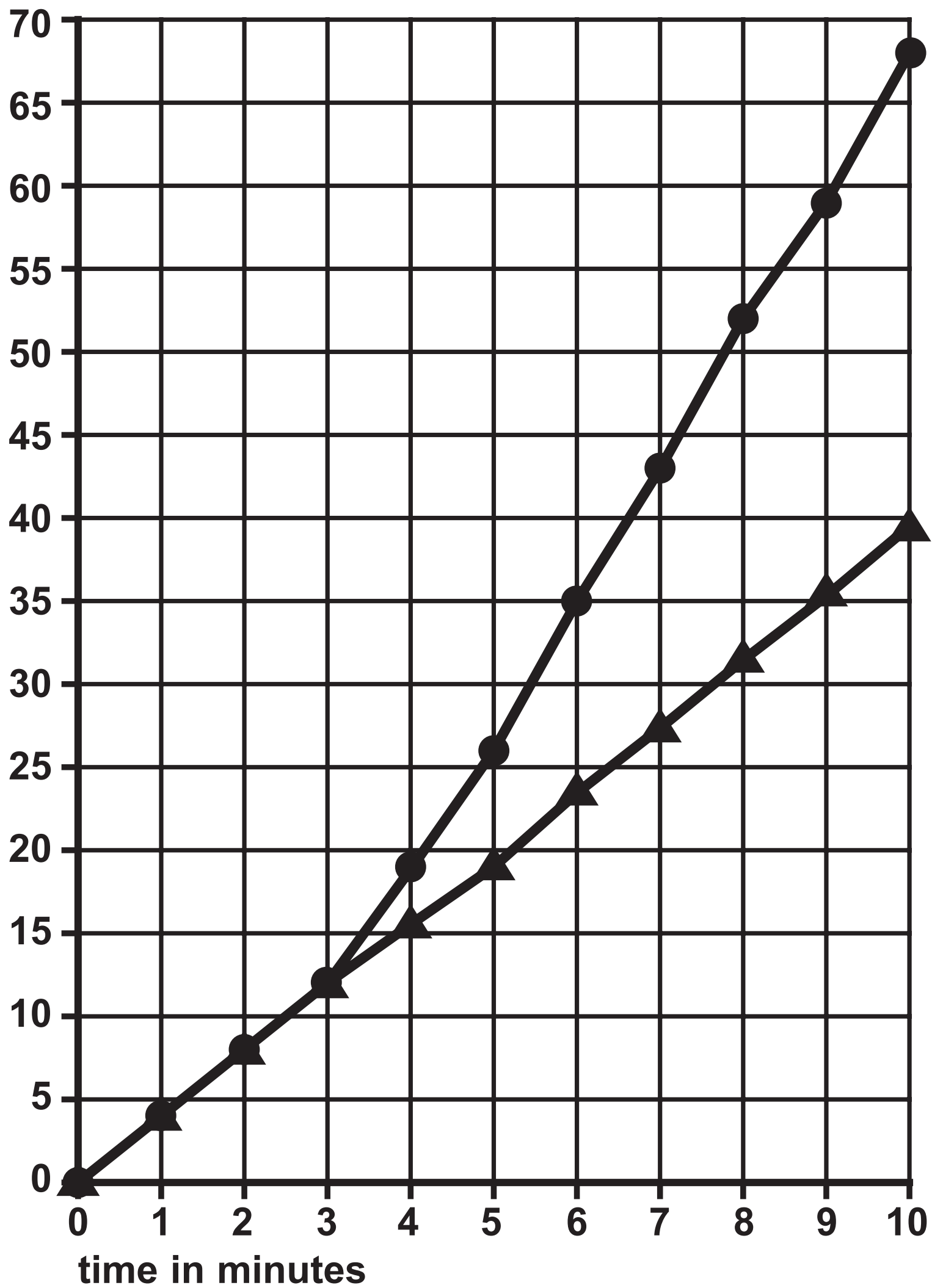
Question 5(c)

Figure 10

—●— fan switched on after three minutes

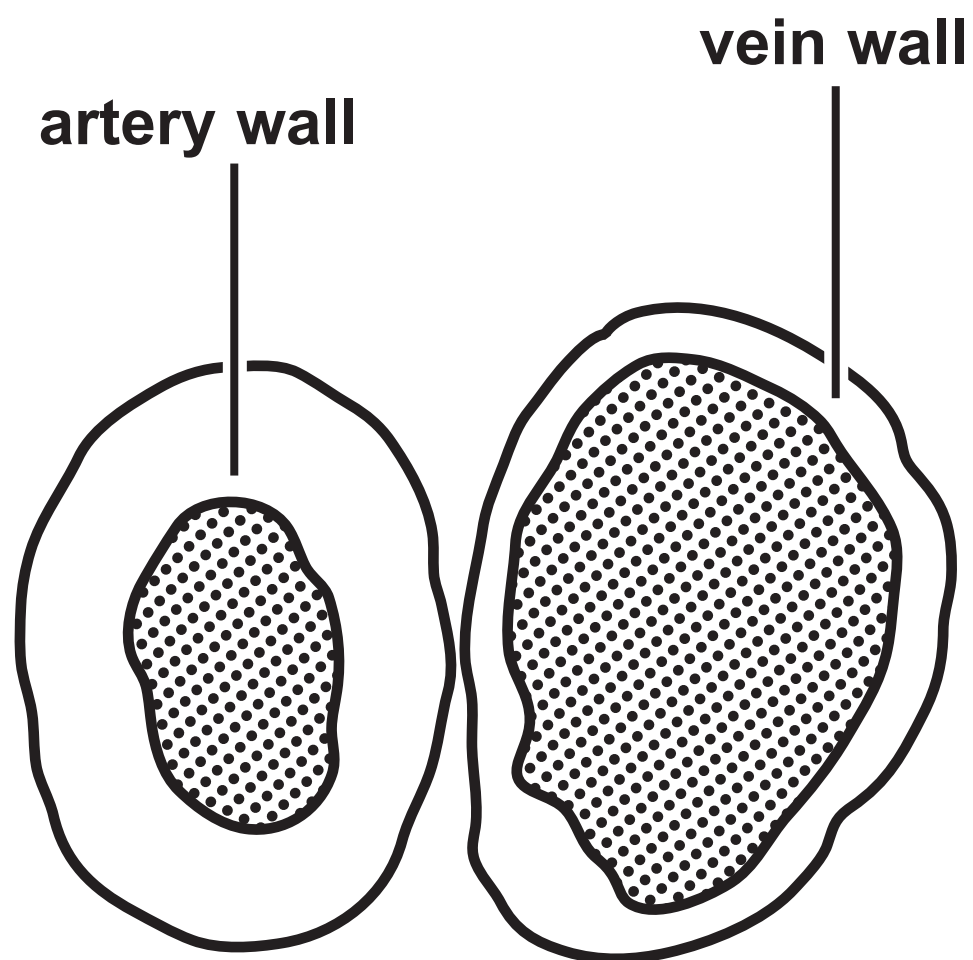
—▲— fan not switched on

volume of water taken
up by the plant in mm^3



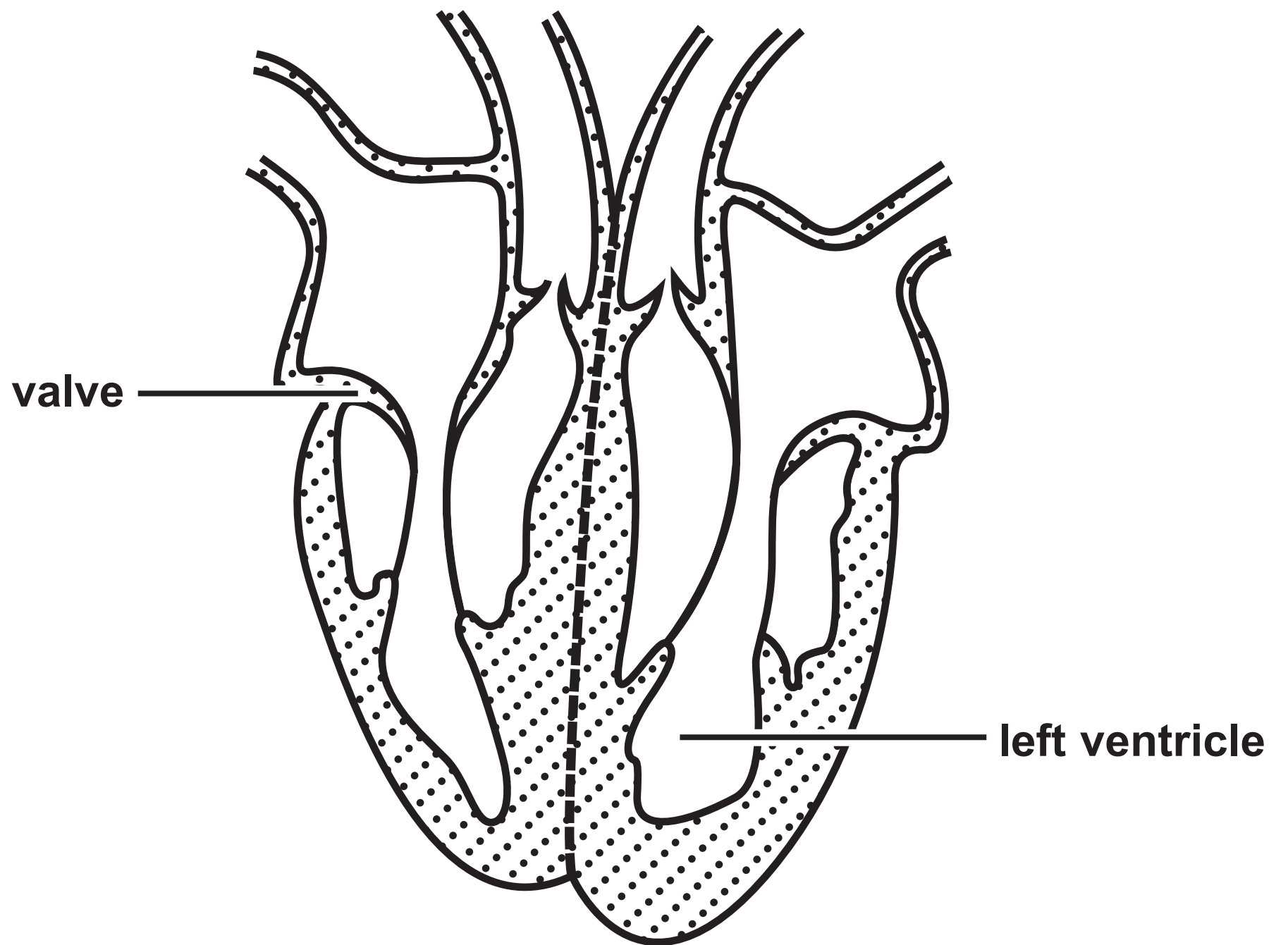
Question 6(a)

Figure 11



Question 6(c)

Figure 12



Question 2(a)(ii)

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Question 3(a)

(Source adapted from: © Rattiya Thongdumhyu/Shutterstock)

Question 4(a)

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Question 6(a)

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