

Biology
PAPER 2
Foundation Tier

Friday 7 June 2024 – Afternoon

Time: 1 hour 45 minutes

Diagram Booklet

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

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.

CONTENTS

Page

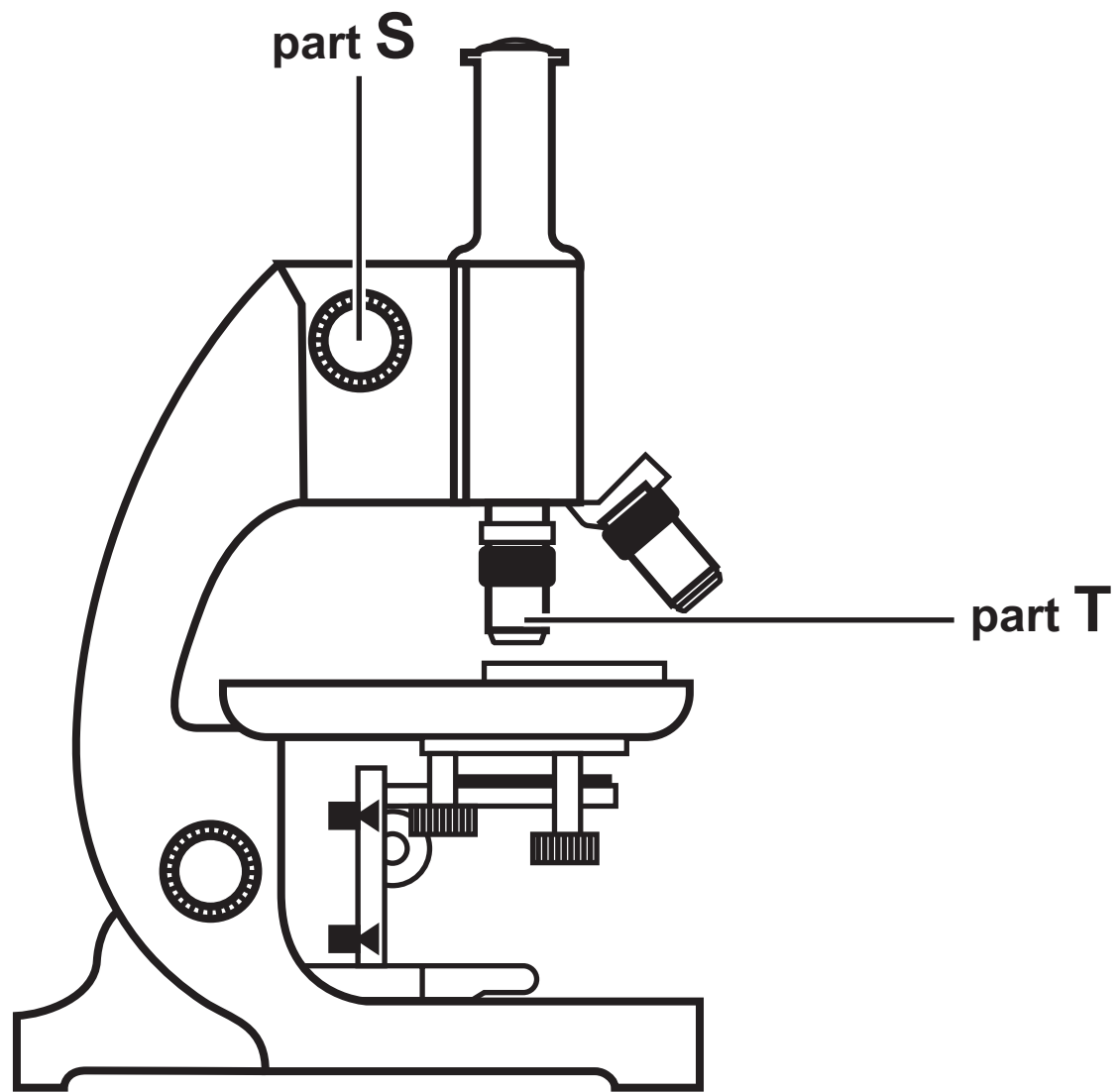
3	Question 1
4	Question 1(a)
5	Question 1(b)
6	Question 2(c)(i)
7	Question 3
8	Question 3(b)
9	Question 4(a)
10	Question 4(d)
11	Question 5
12	Question 5(b)
13	Question 6
14	Question 6(d)
15	Question 7
16	Question 8(b)
17	Question 9(a)
18	Question 9(b)
19	Question 9(c)
20	Question 10(b)
21	Question 10(e)

Spare Copies

22	Question 1(a)
23	Question 4(a)

Question 1

FIGURE 1



Question 1(a)**part of microscope****function**

part S

- to stain the cells

part T

- to focus the image so that it is clear

- to magnify the image

- to hold the slide in place

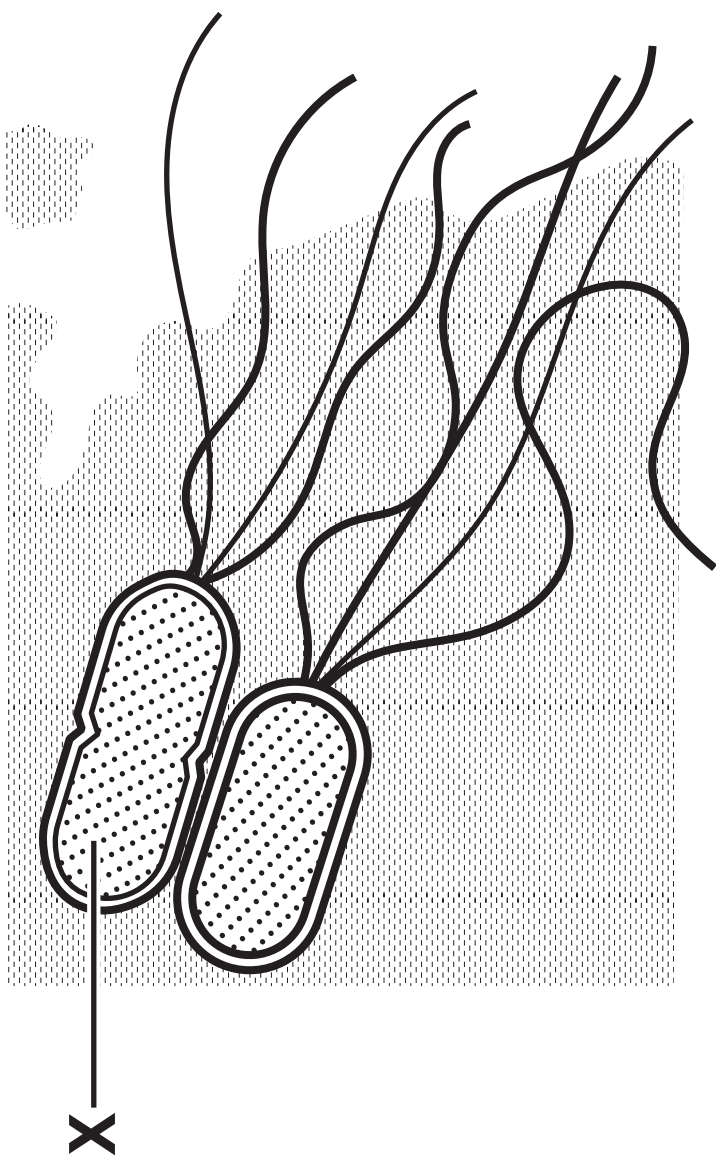
- to provide light to see the image

FIGURE 2

image A

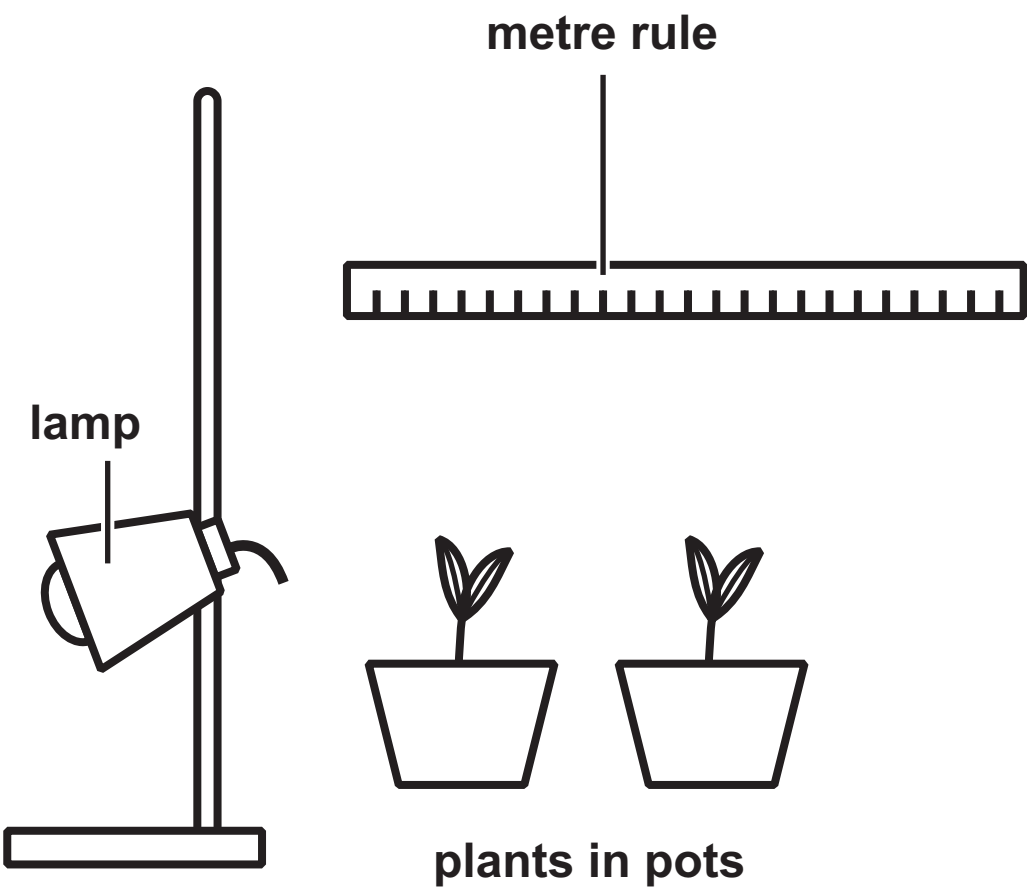


image B



Question 2(c)(i)

FIGURE 3



Question 3**FIGURE 4**

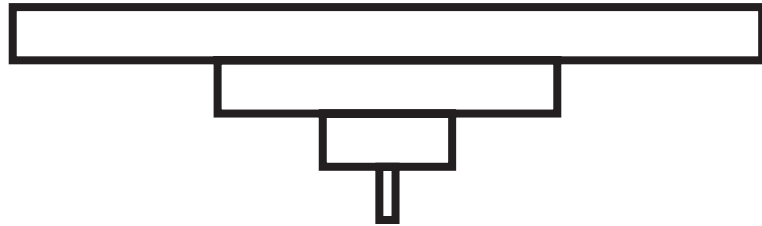
oak tree → aphids → ladybirds → robins

Question 3(b)

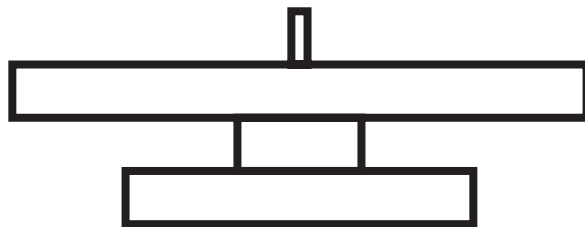
A



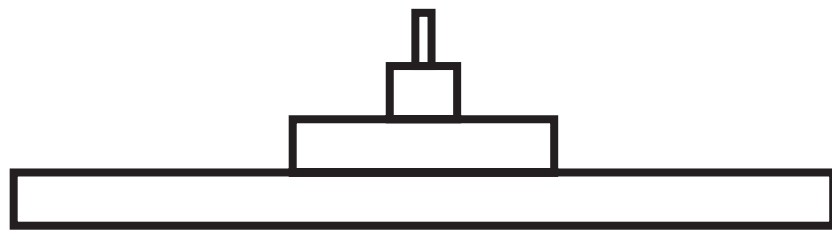
B

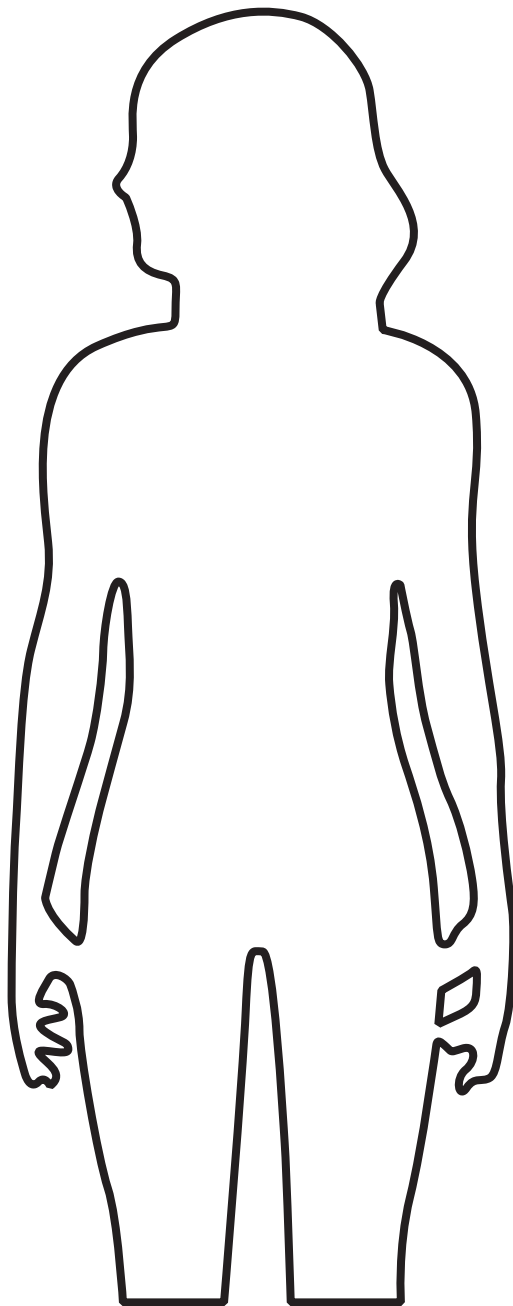


C



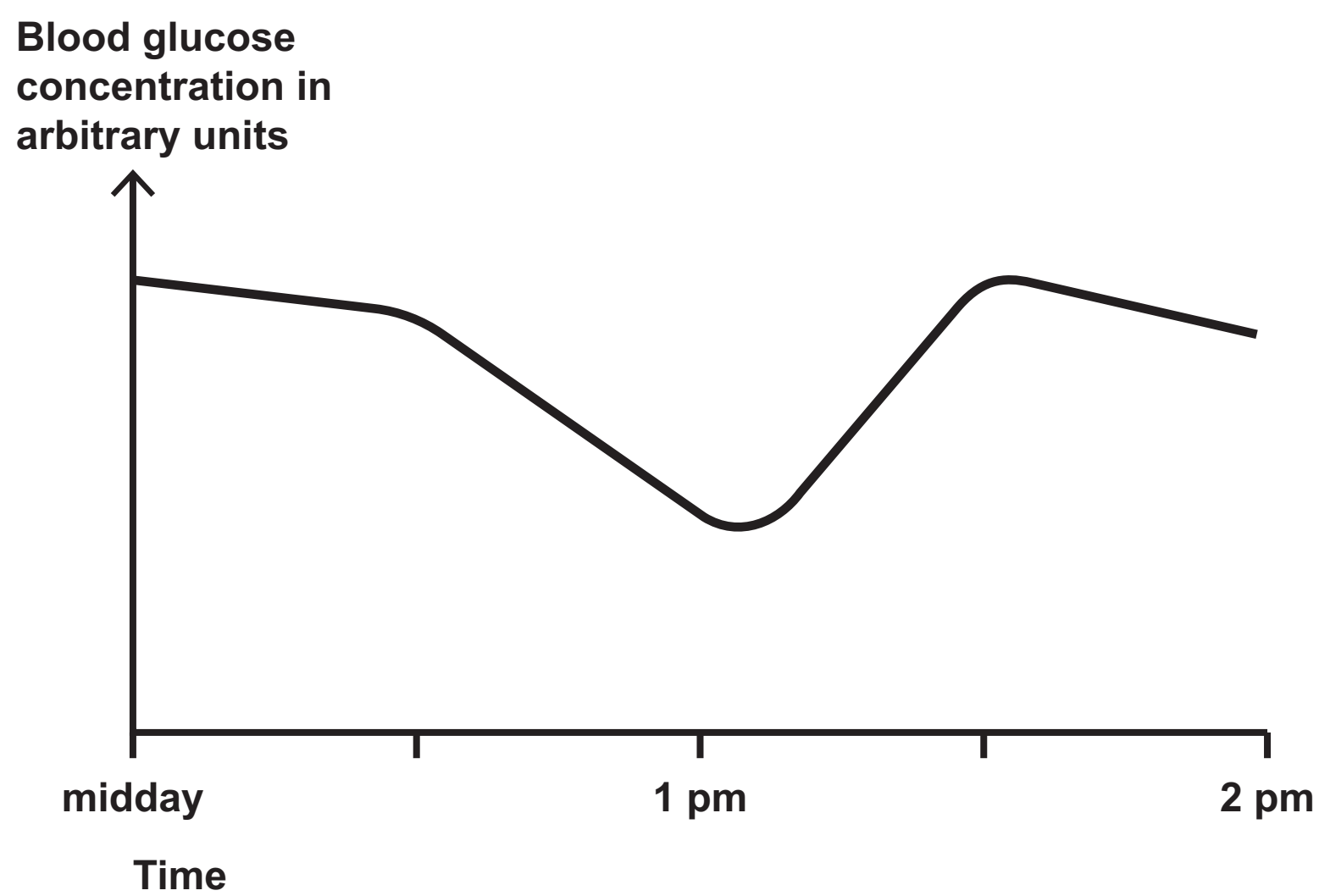
D



Question 4(a)**FIGURE 5**

Question 4(d)

FIGURE 6



Question 5

FIGURE 7

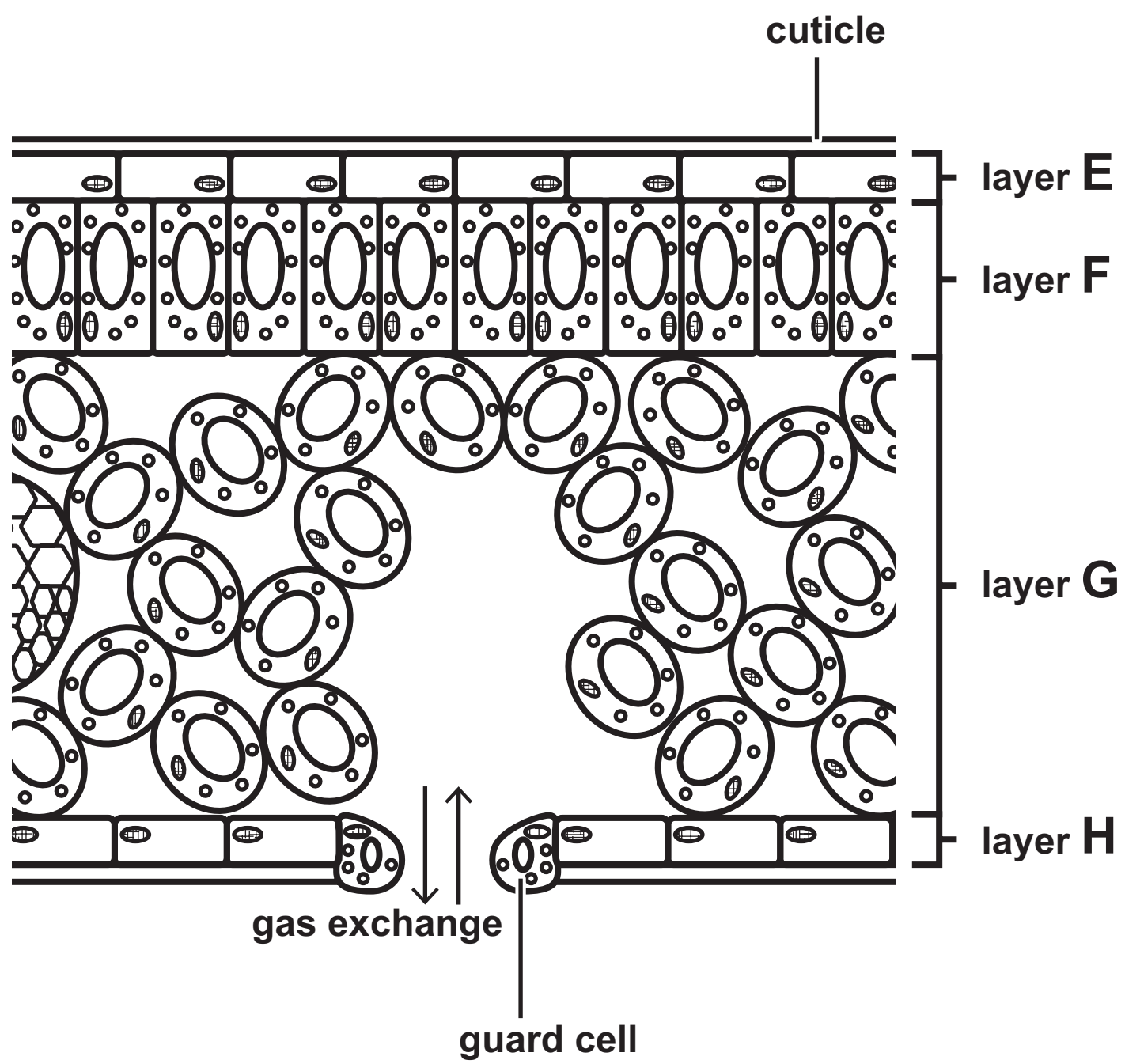
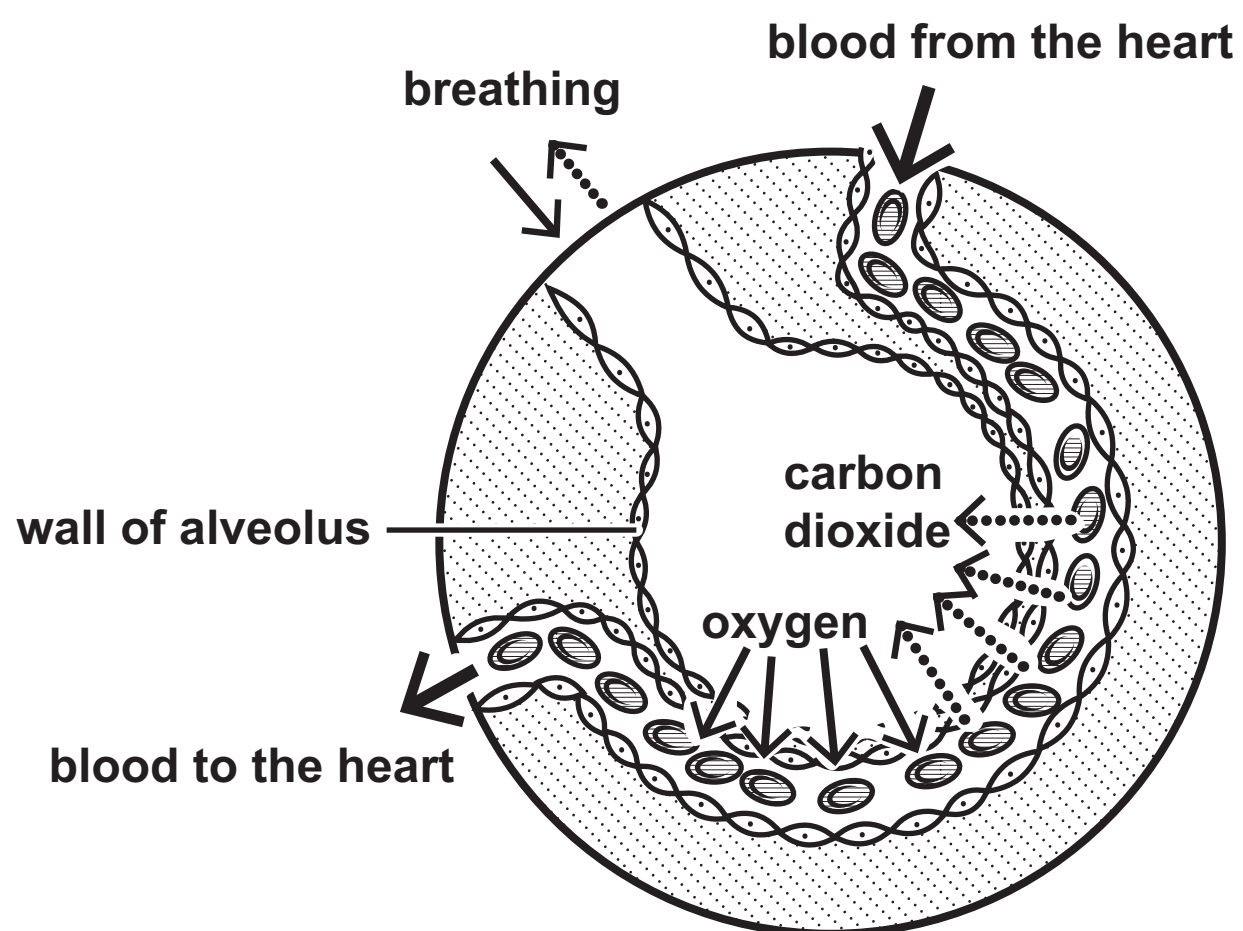


FIGURE 8

water content of soil (%)	thickness of the cuticle in μm						mean thickness of cuticle in μm
	plant 1	plant 2	plant 3	plant 4	plant 5	plant 6	
5	13.8	12.3	11.4	10.6	11.7	13.2	12.2
10	11.1	8.8	10.0	8.9	7.0	8.2	9.0
15	7.2	7.1	6.9	5.4	5.9	6.1	?
20	3.6	4.0	3.6	4.2	3.9	4.3	3.9

Question 6

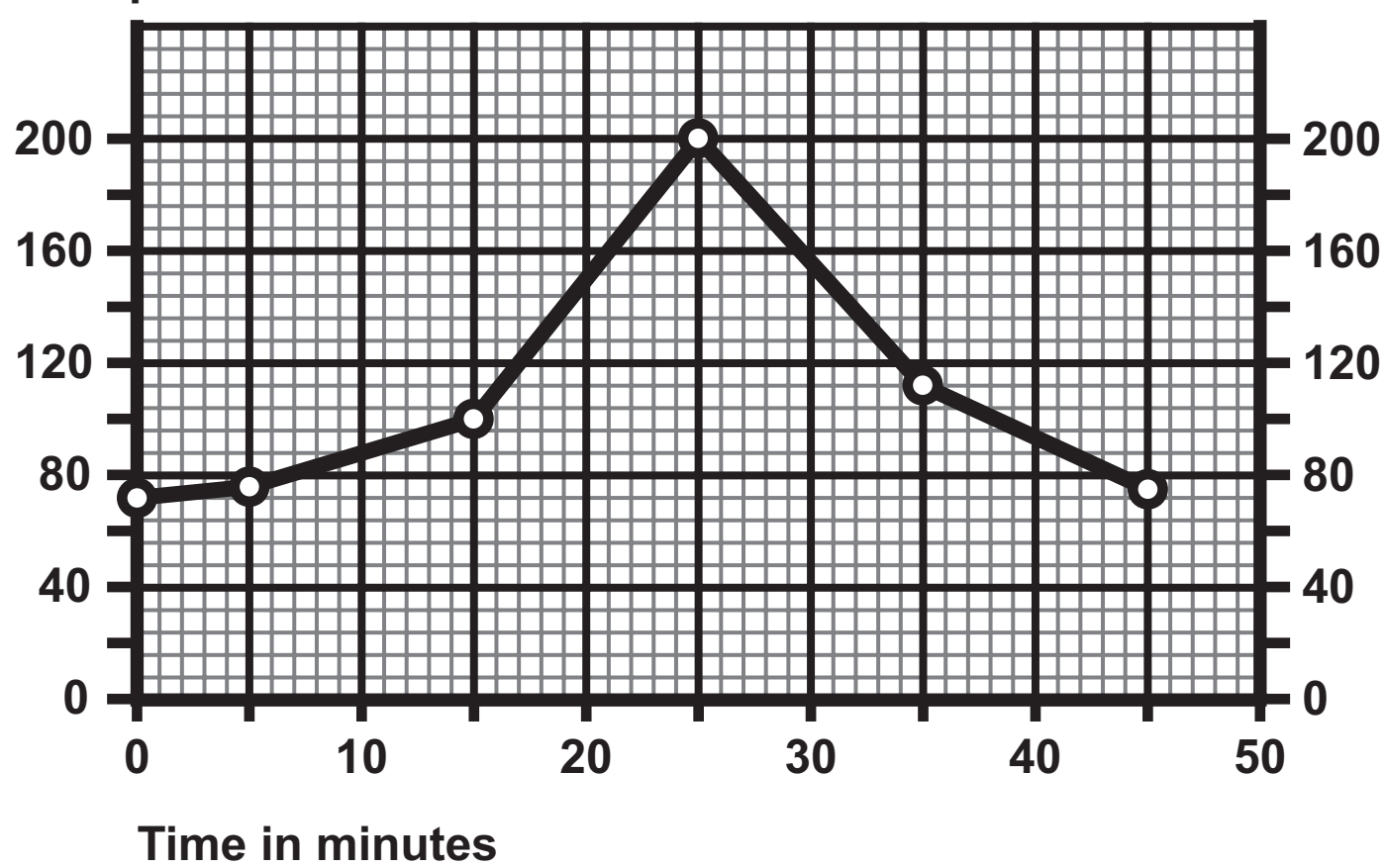
FIGURE 9



Question 6(d)

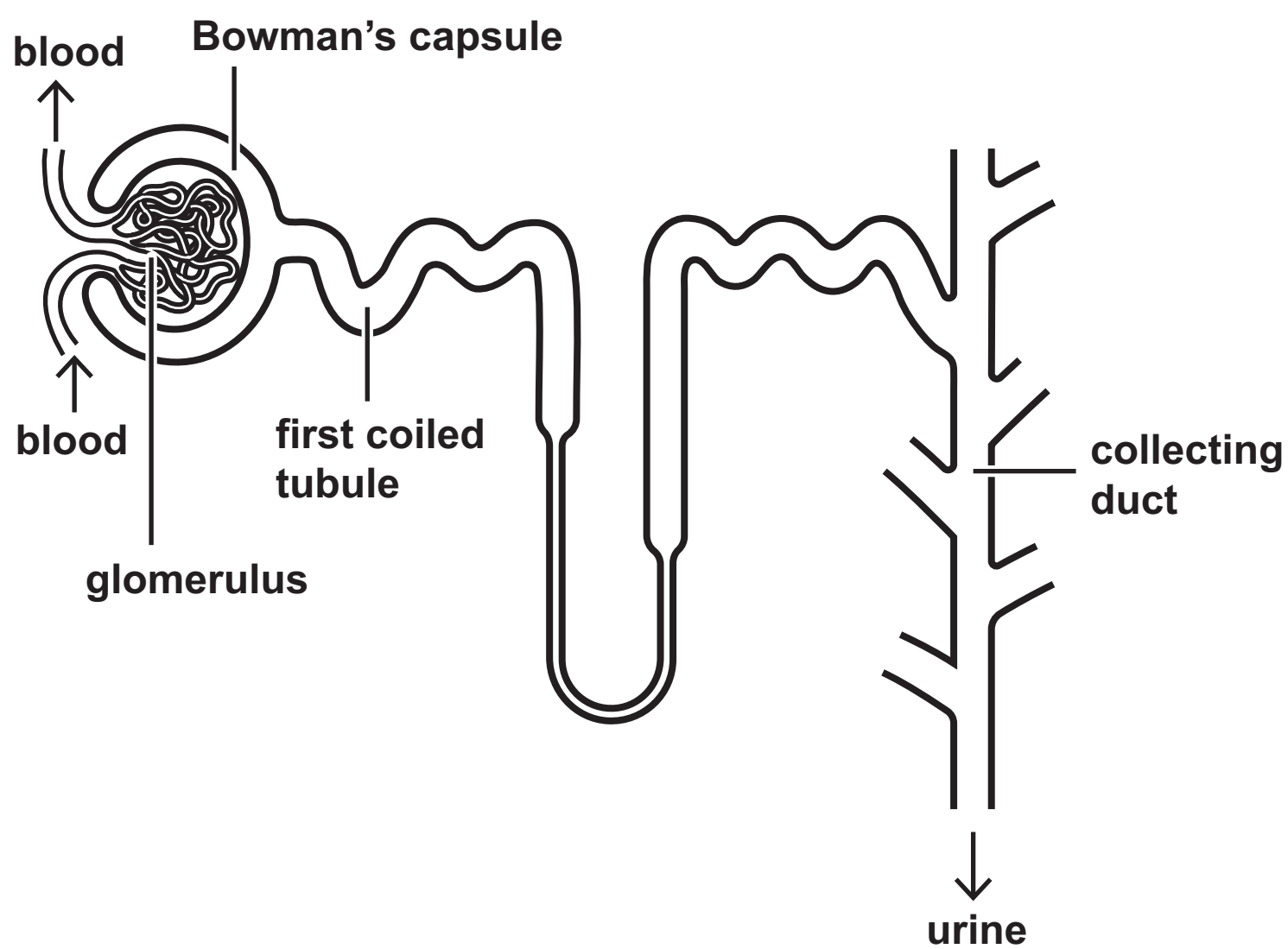
FIGURE 10

Heart rate in
beats per minute



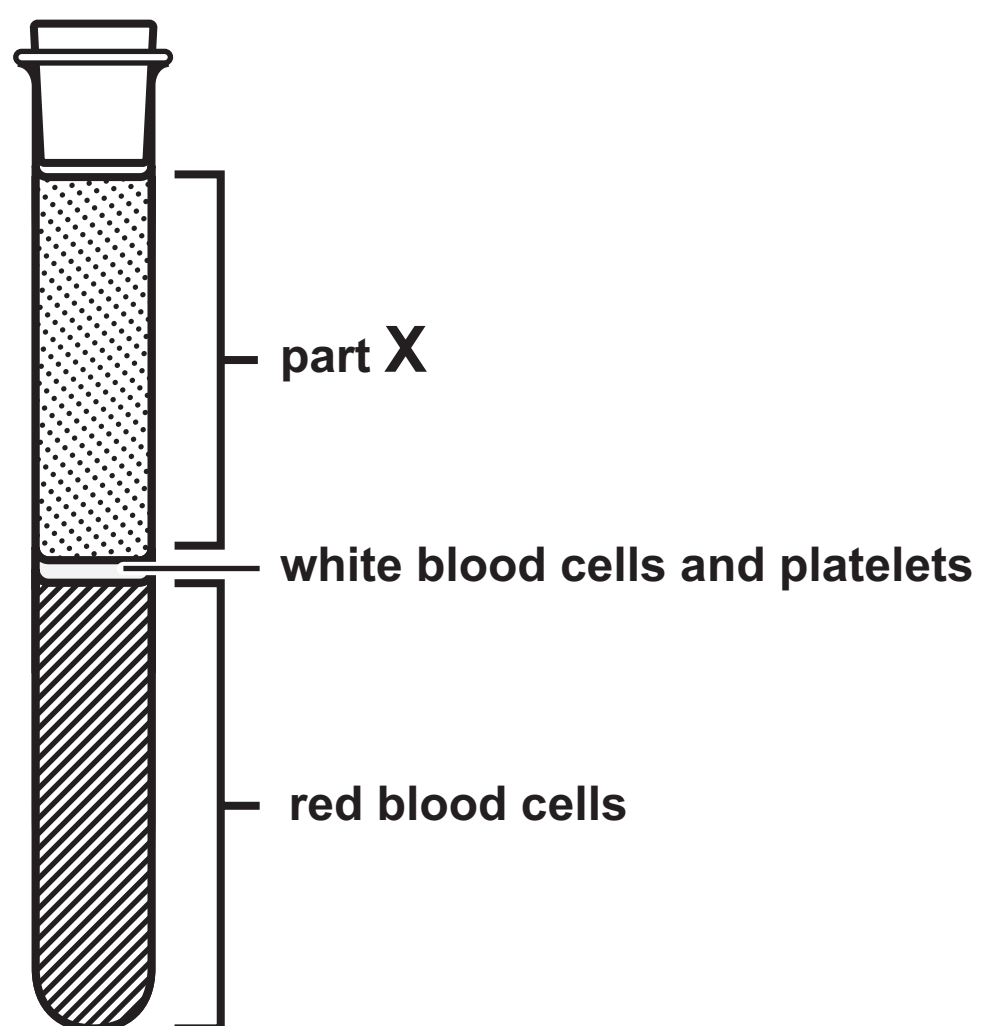
Question 7

FIGURE 11



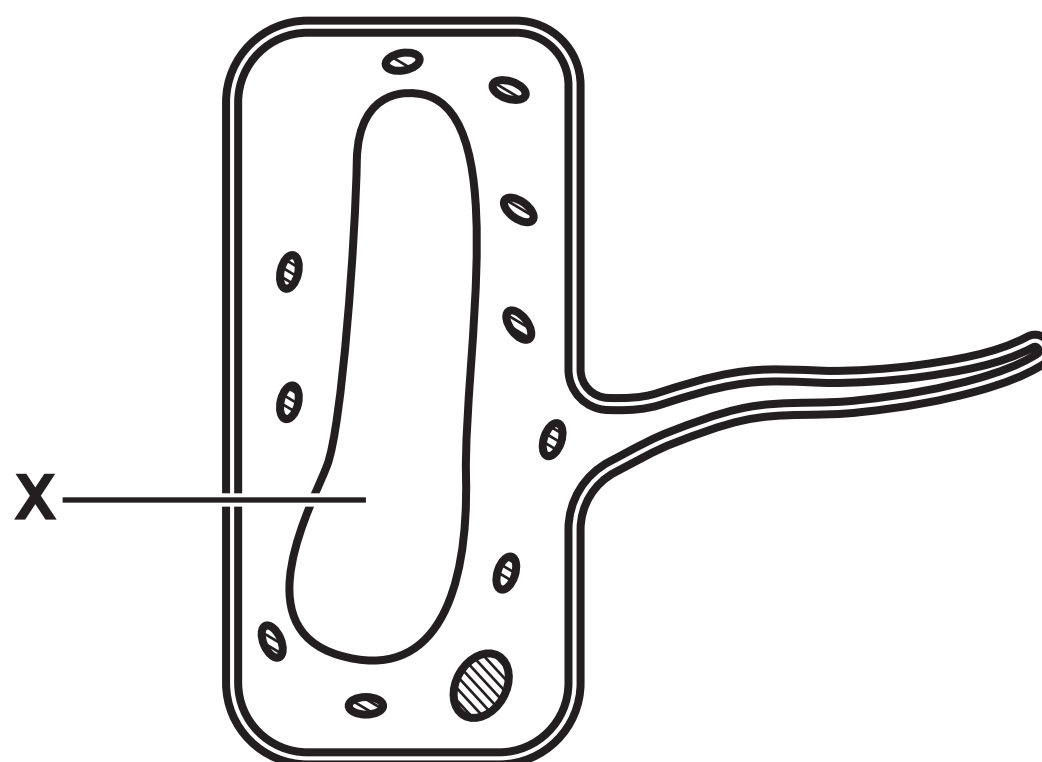
Question 8(b)

FIGURE 12



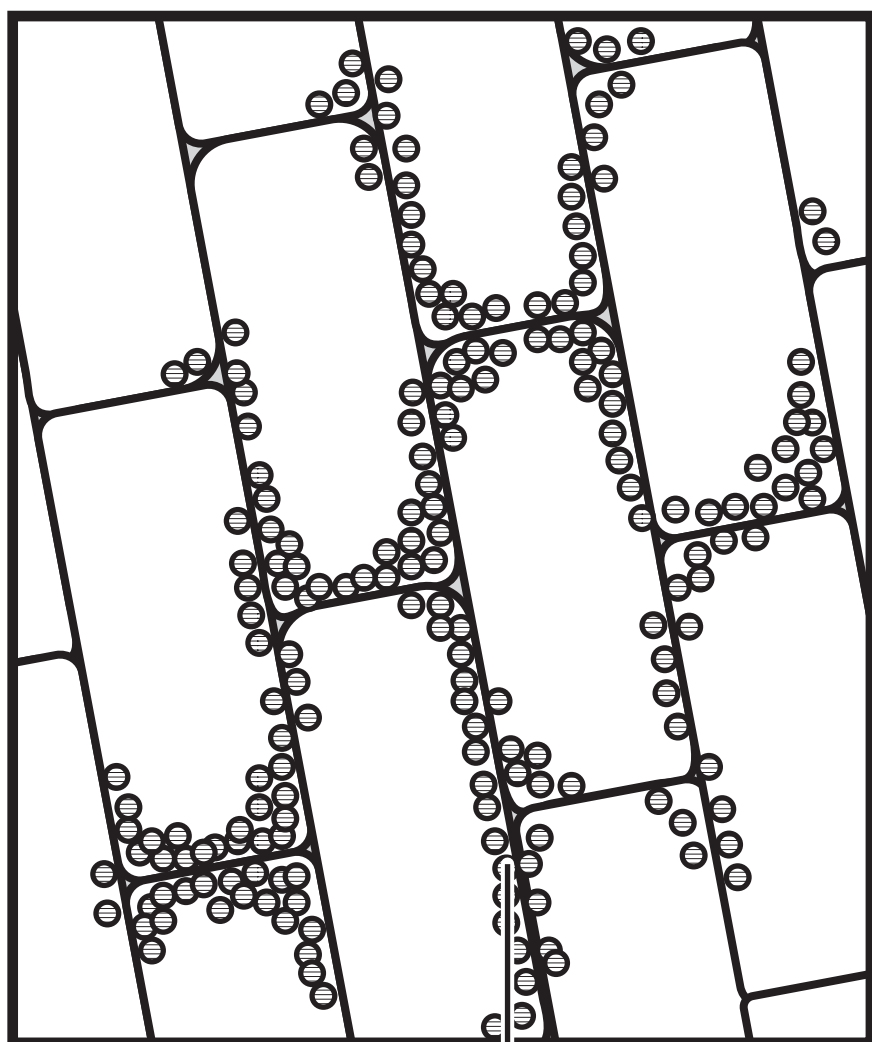
Question 9(a)

FIGURE 13

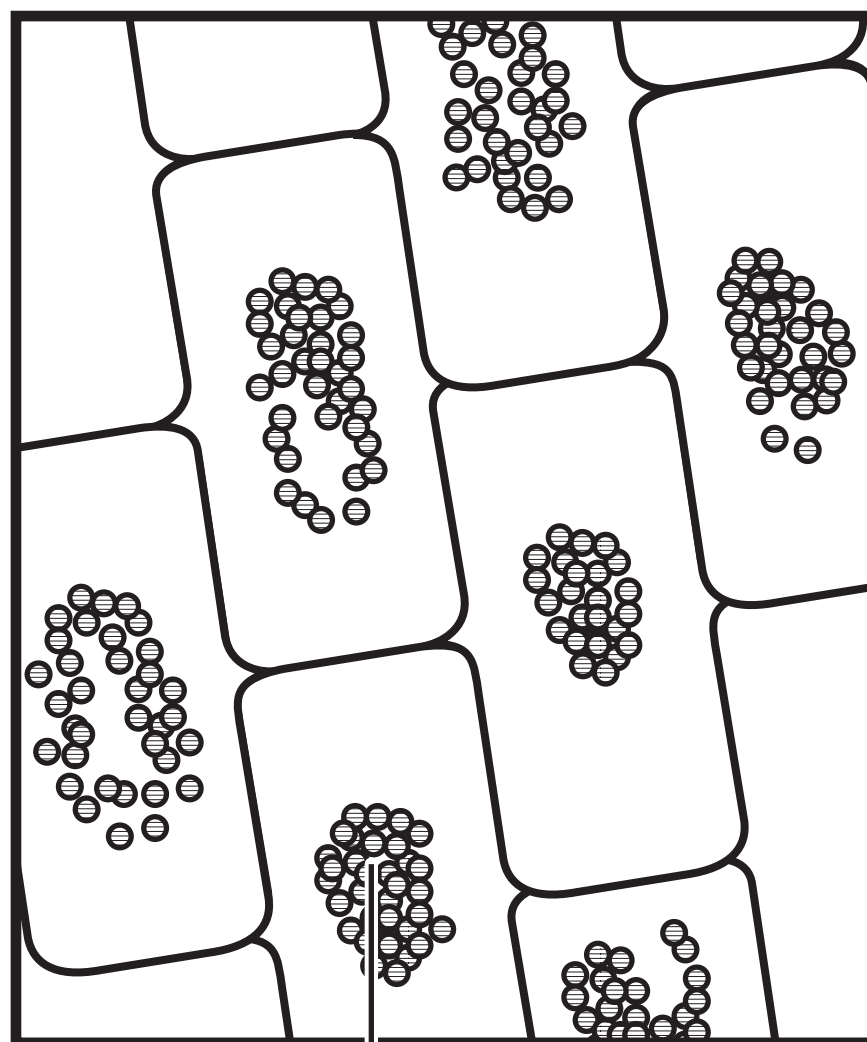


Question 9(b)

FIGURE 14

Elodea cells in tap water

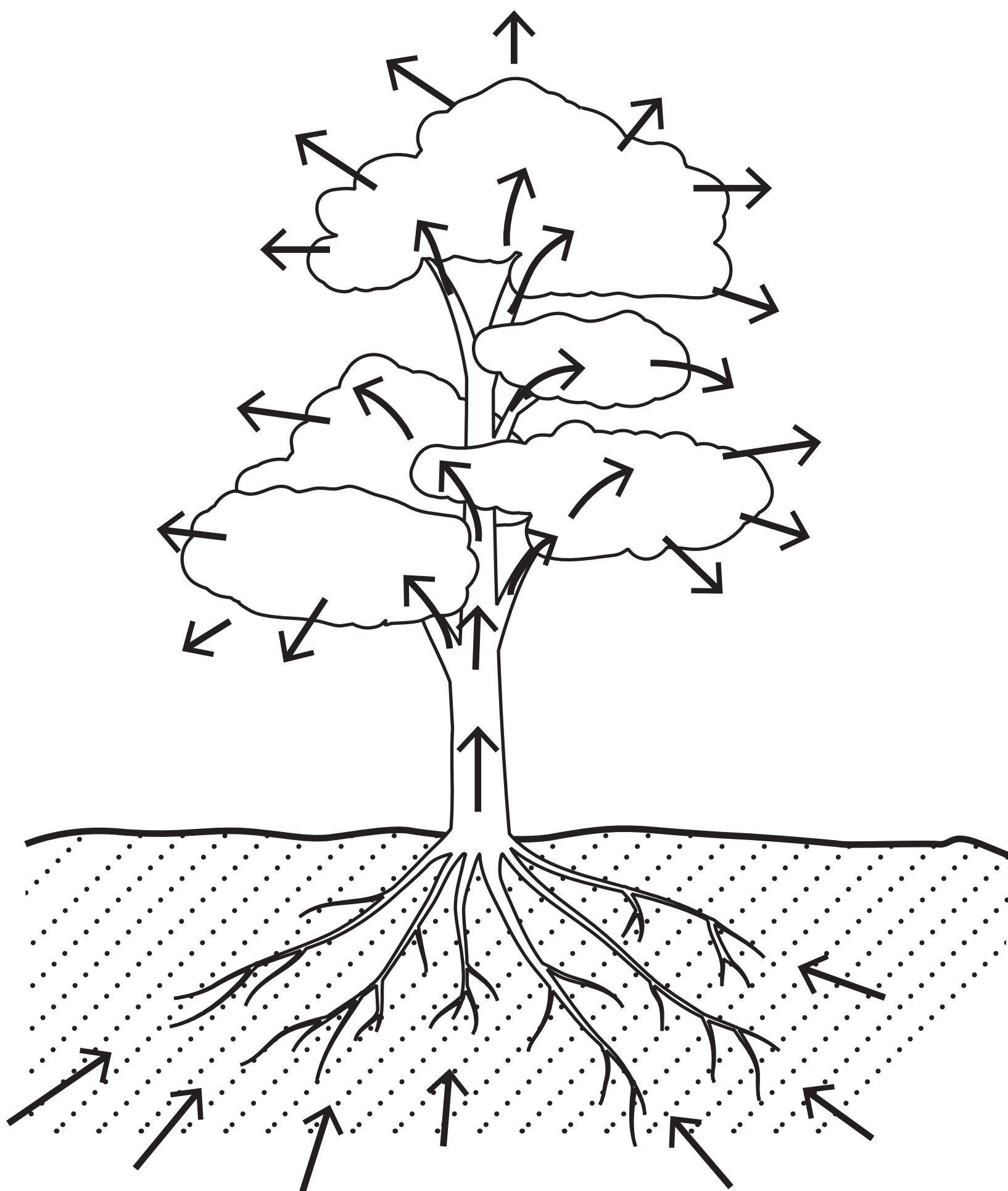
chloroplasts

Elodea cells in 10% salt solution

chloroplasts

Question 9(c)

FIGURE 15



Question 10(b)

FIGURE 16

time in days	mass of leaves in grams	
	holly	oak
0	200	200
10	191	181
20	176	154
30	159	122
40	147	96
50	120	70

Question 10(e)

FIGURE 17

mass in grams		
	at start of month	at end of month
leaves	1 600	400
snails	200	320

Question 1(a)

part of microscope

part S

part T

function

- to stain the cells

- to focus the image so that it is clear

- to magnify the image

- to hold the slide in place

- to provide light to see the image

Question 4(a)

FIGURE 5

