Paper Reference(s) 1BI0/1F
Pearson Edexcel Level 1/Level 2 GCSE (9–1)

Biology
PAPER 1
Foundation Tier

Friday 10 May 2024 – Morning

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						

Q75502A

Pearson

INSTRUCTIONS

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

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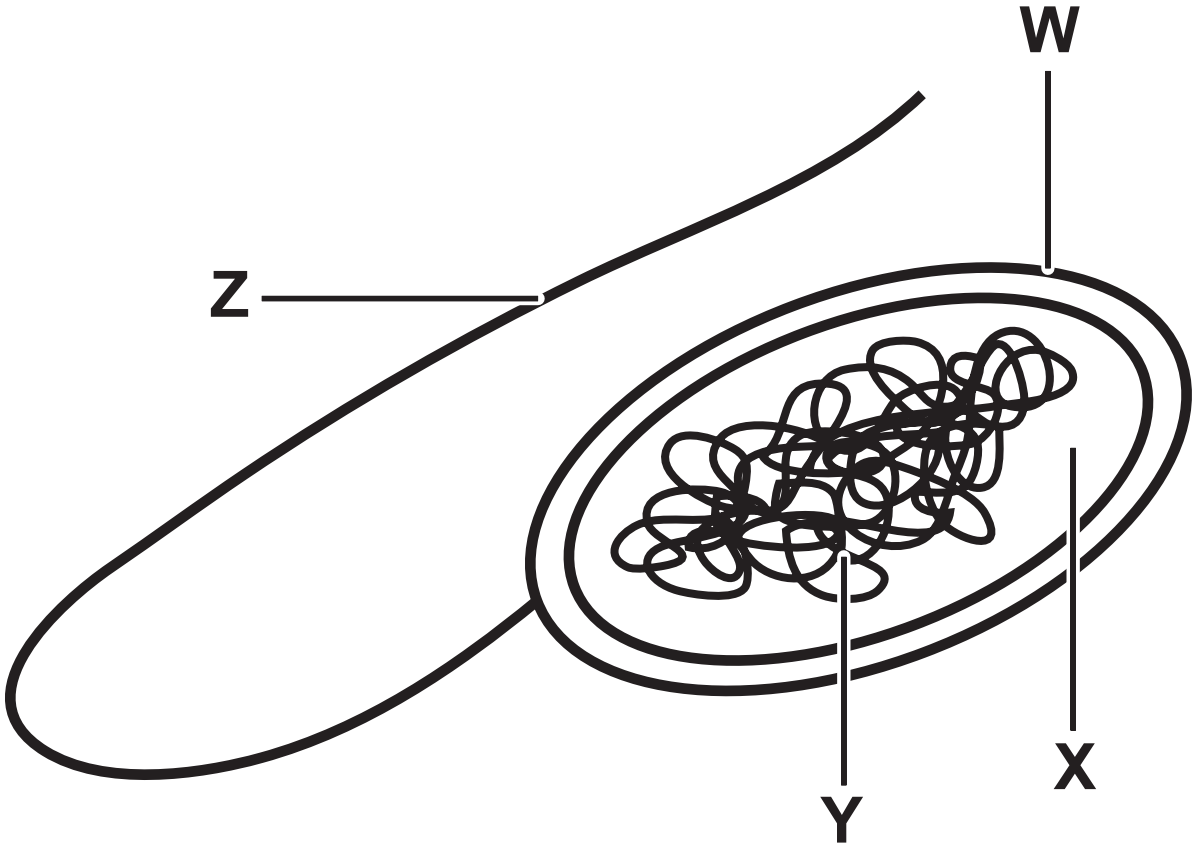
CONTENTS continued.

Question 1(a)

FIGURE 1



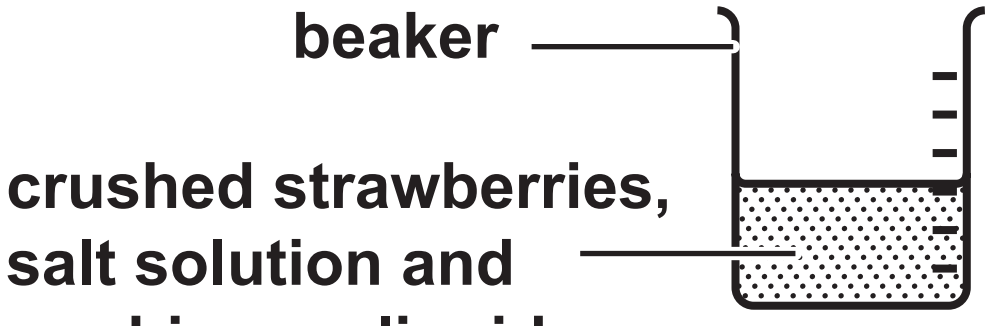
Question 1(b)

body defence	function
hydrochloric acid	makes antibodies
skin	destroys pathogens in the stomach
	makes antigens
	moves pathogens away from the lungs
	stops pathogens entering the body

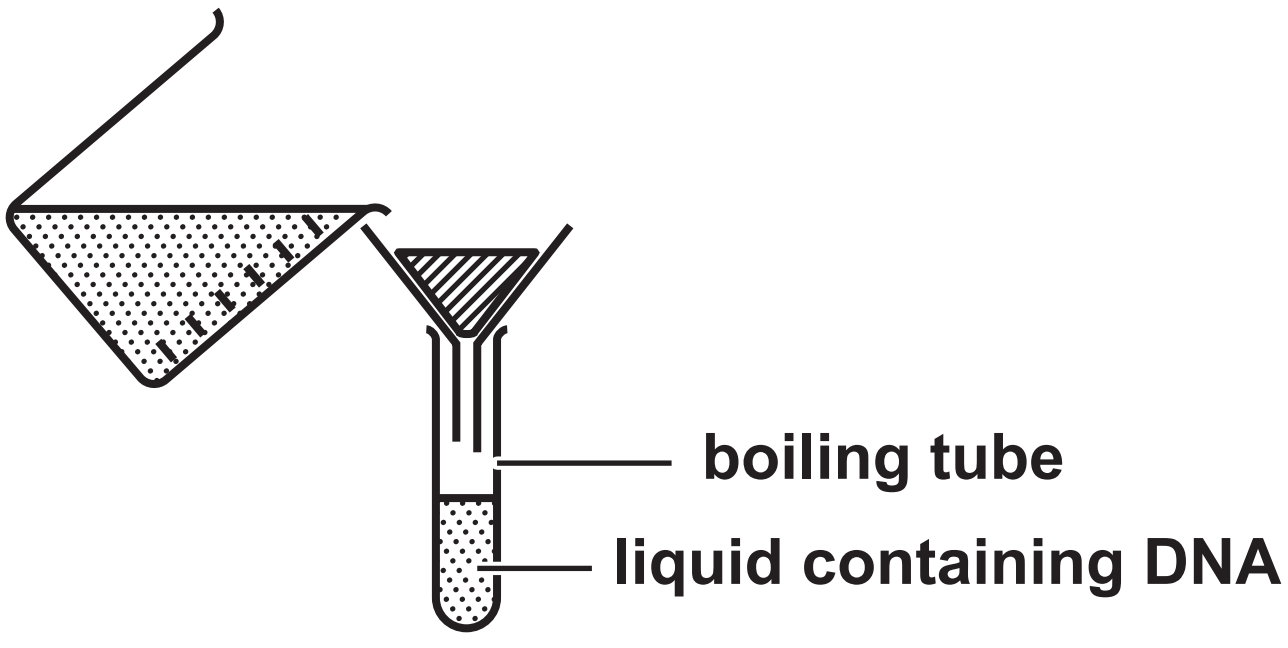
Question 2

FIGURE 2

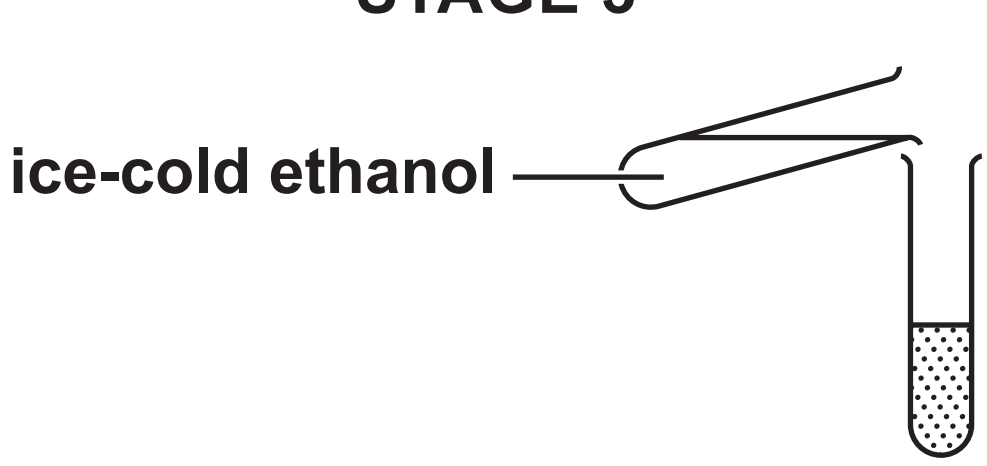
STAGE 1



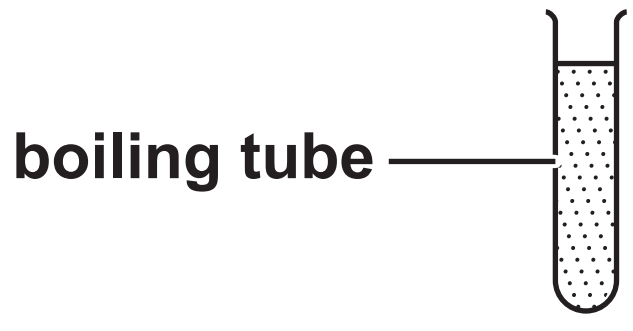
STAGE 2



STAGE 3



STAGE 4



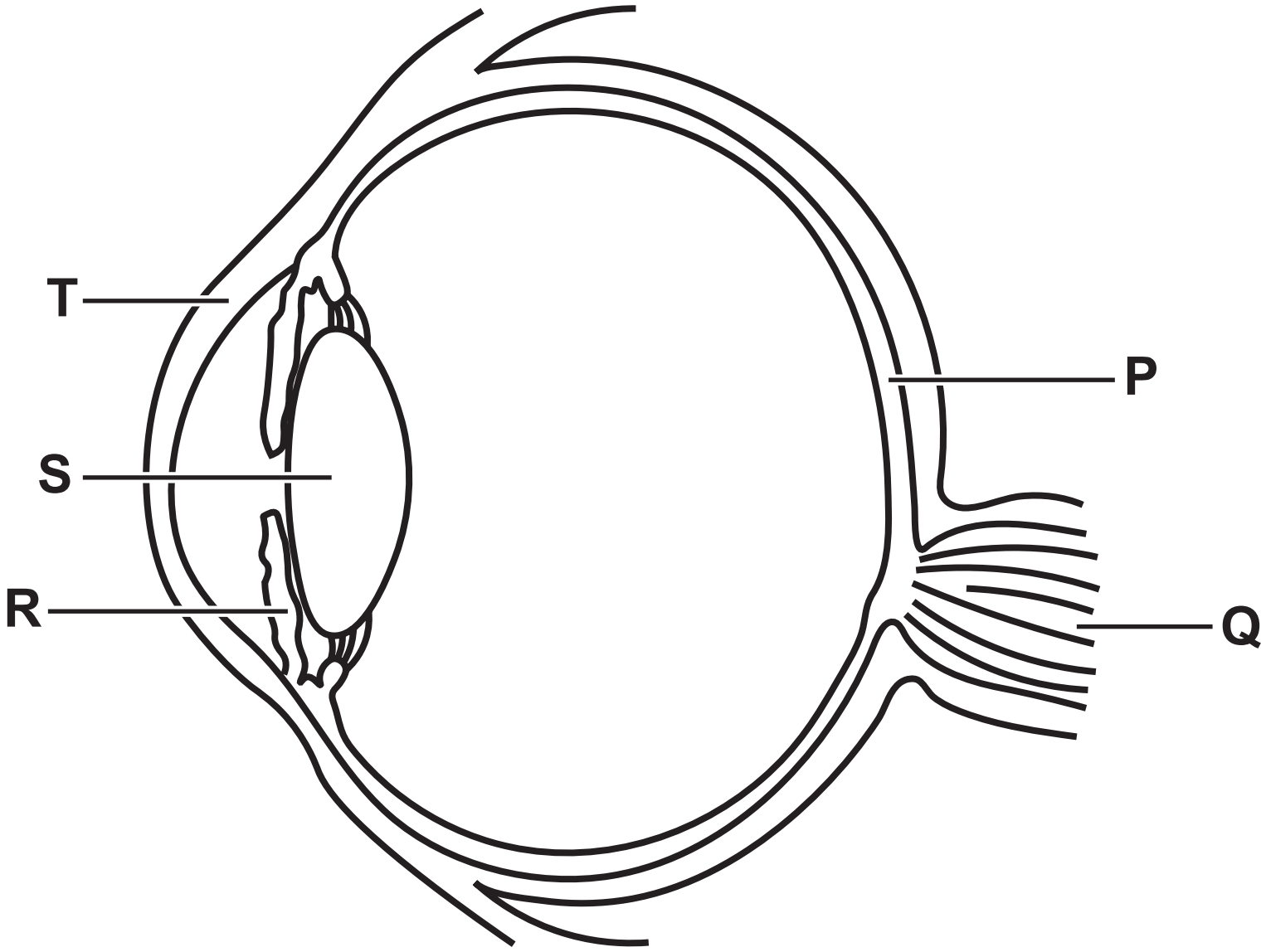
Question 2(b)

FIGURE 3

strawberry	mass of DNA in ng
1	11·8
2	6·5
3	5·9
4	1·4

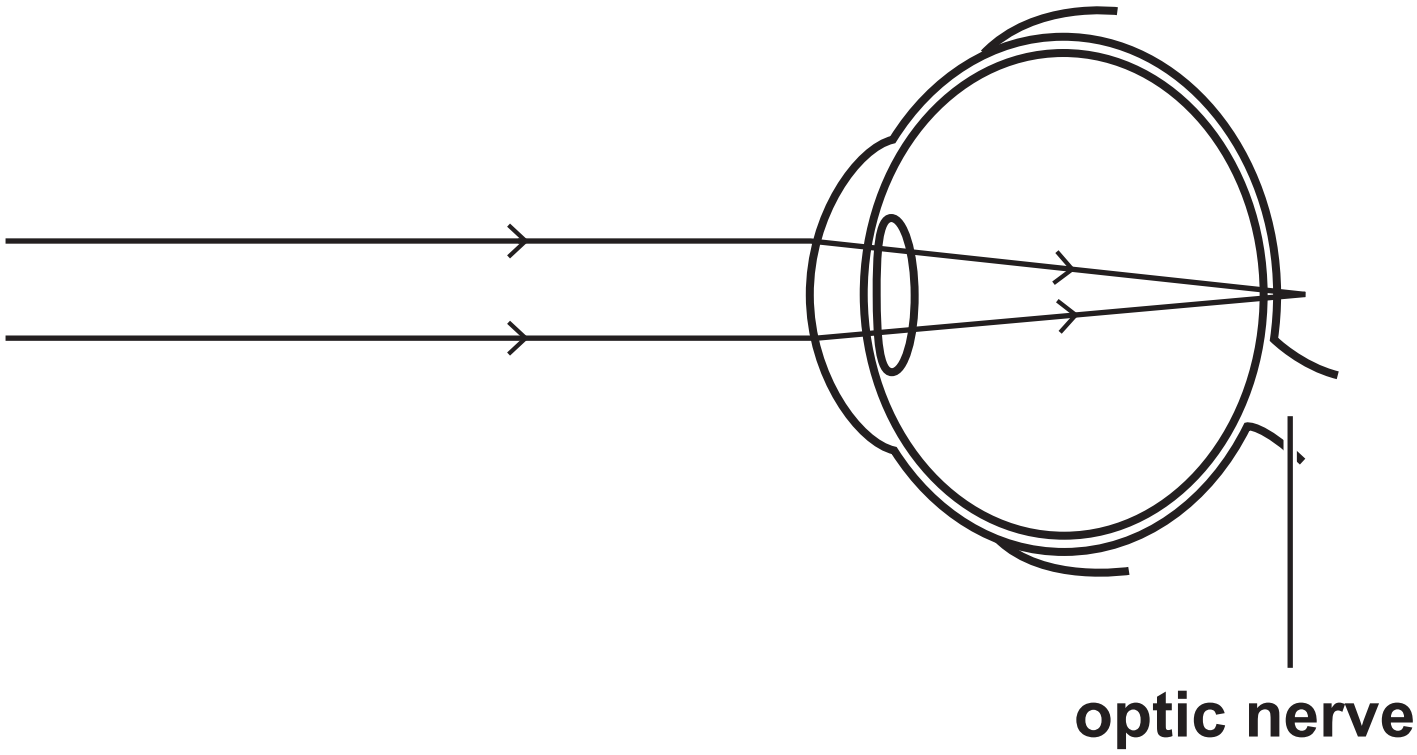
Question 3(a)

FIGURE 4



Question 3(b)

FIGURE 5



Question 4

FIGURE 6

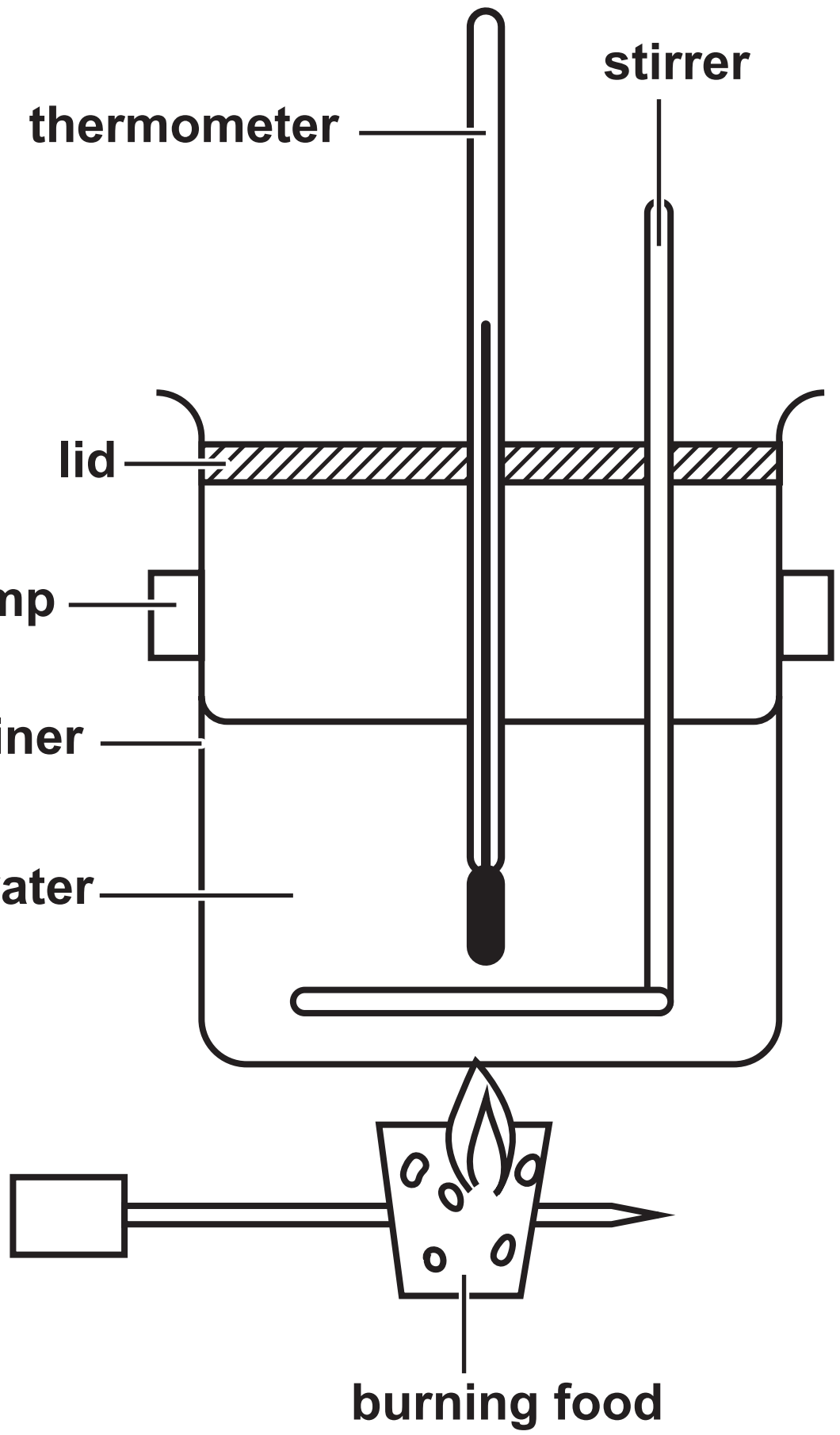
information	red junglefowl	domesticated chicken
photograph		
mass of adult in kg	0·75 to 1·2	2·5 to 3·0
number of eggs laid per year	10 to 15	250 to 300

Question 4(c)

type of cell produced	type of cell division	number of daughter cells produced
body cell	mitosis	
gamete		

Question 5

FIGURE 7



Question 5(b)

FIGURE 8

temperature change in °C	mass of water in g
30	50

Question 5(b)(ii)

FIGURE 9

temperature change in °C	mass of water in g	energy content in J
64	25	6 720

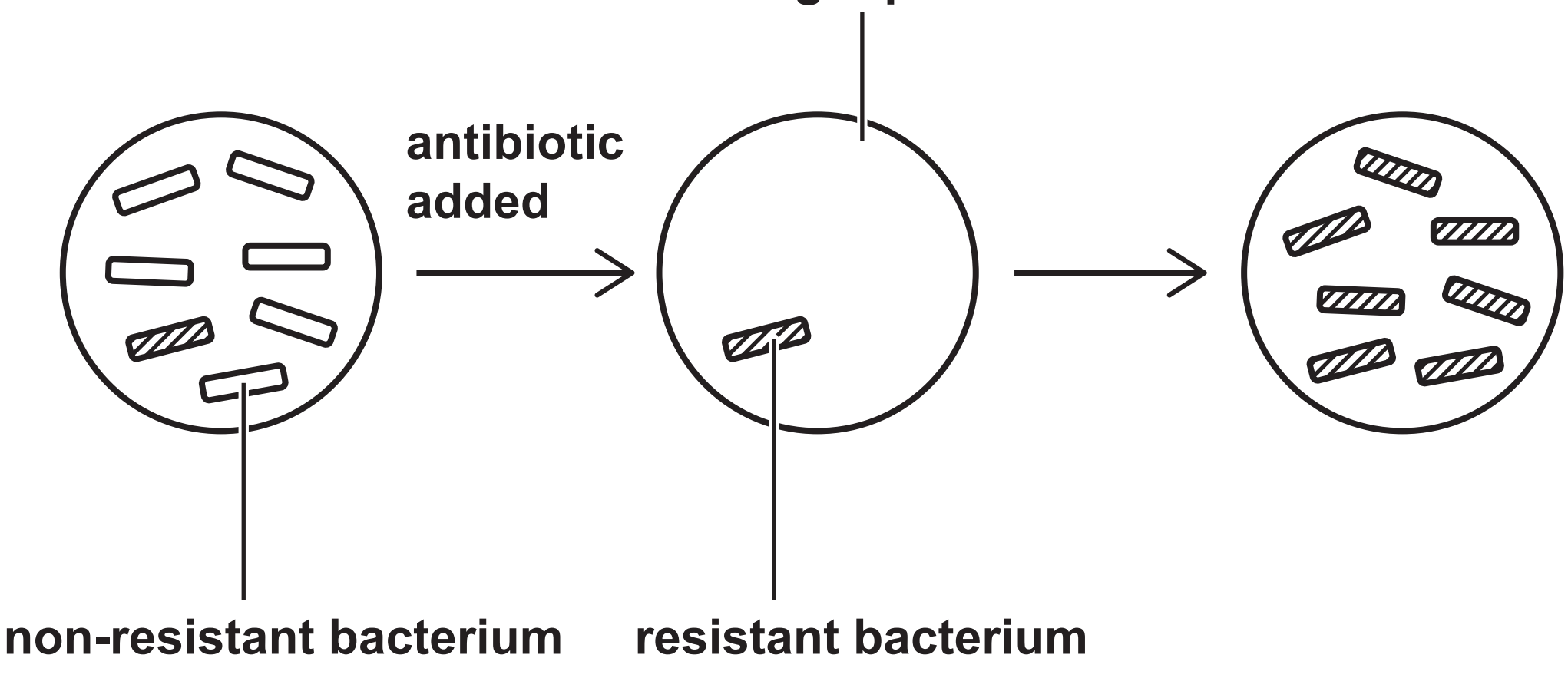
Question 5(c)

FIGURE 10

food	carbohydrate in g	fat in g	energy in kJ
100 g of apple	14·0	0·2	220
100 g of avocado	9·0	15·0	669

Question 6(b)

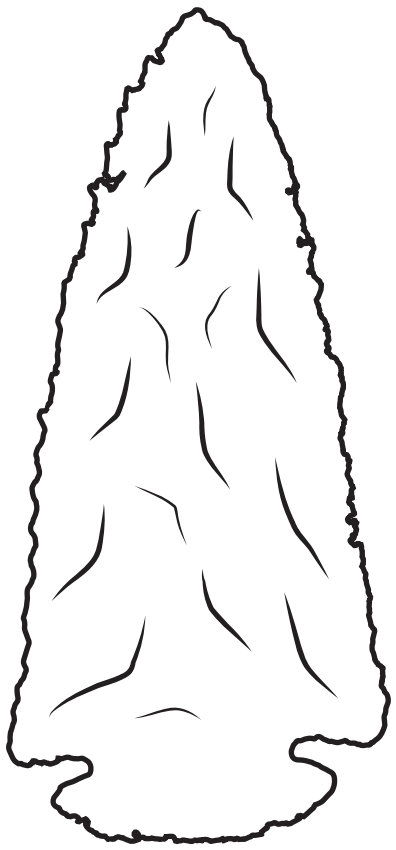
FIGURE 11



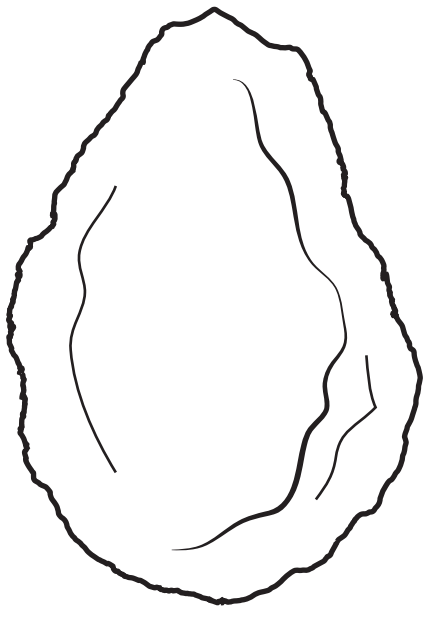
Question 6(d)

FIGURE 12

tool A
approximately
4 000 years old



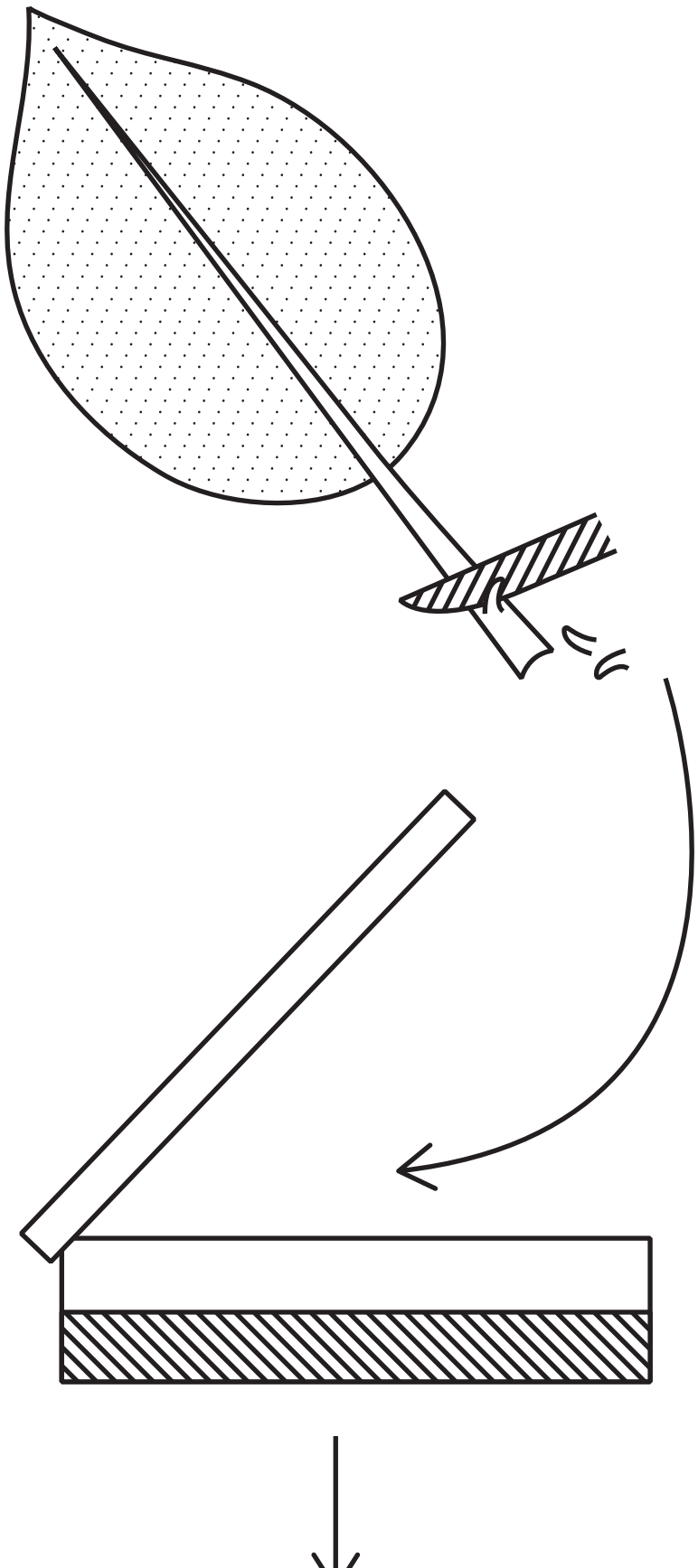
tool B
approximately
100 000 years old



Question 7(b)

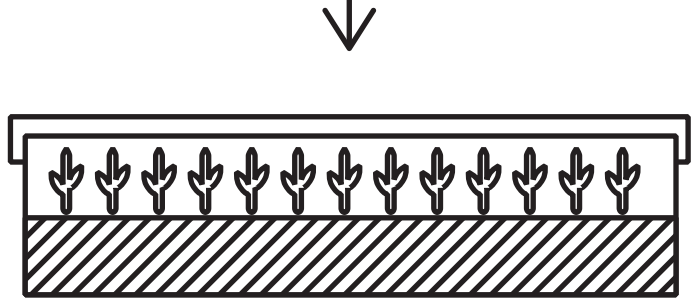
FIGURE 13

Step 1: Cells are taken from a rare plant.

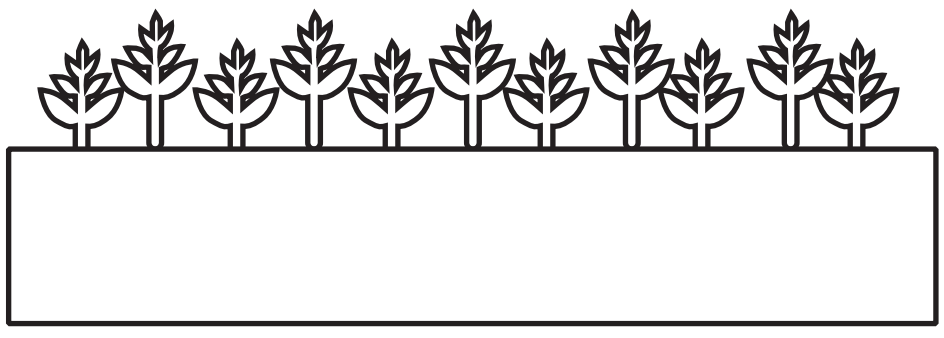


Step 2: The cells are placed on sterile growth medium.

Step 3: The cells develop into small plantlets with roots and stems.



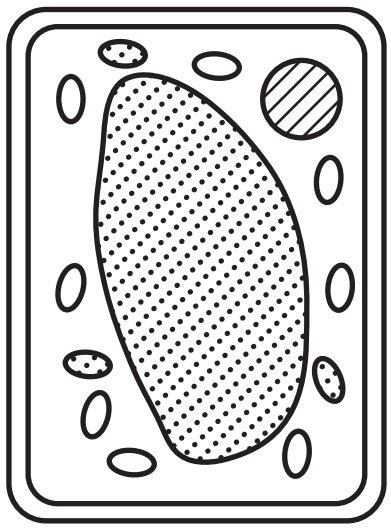
Step 4: The plantlets are grown in compost.



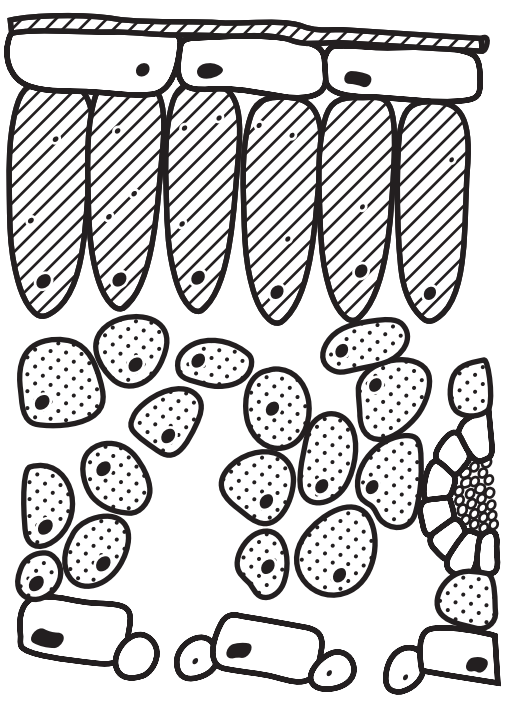
Question 7(c)

FIGURE 14

plant cell



section through a plant leaf



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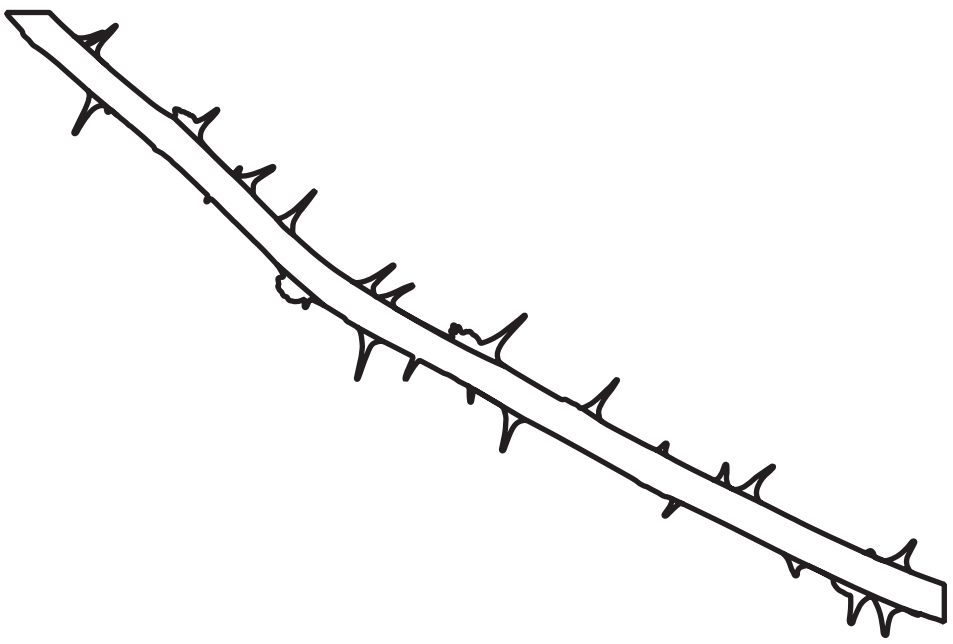
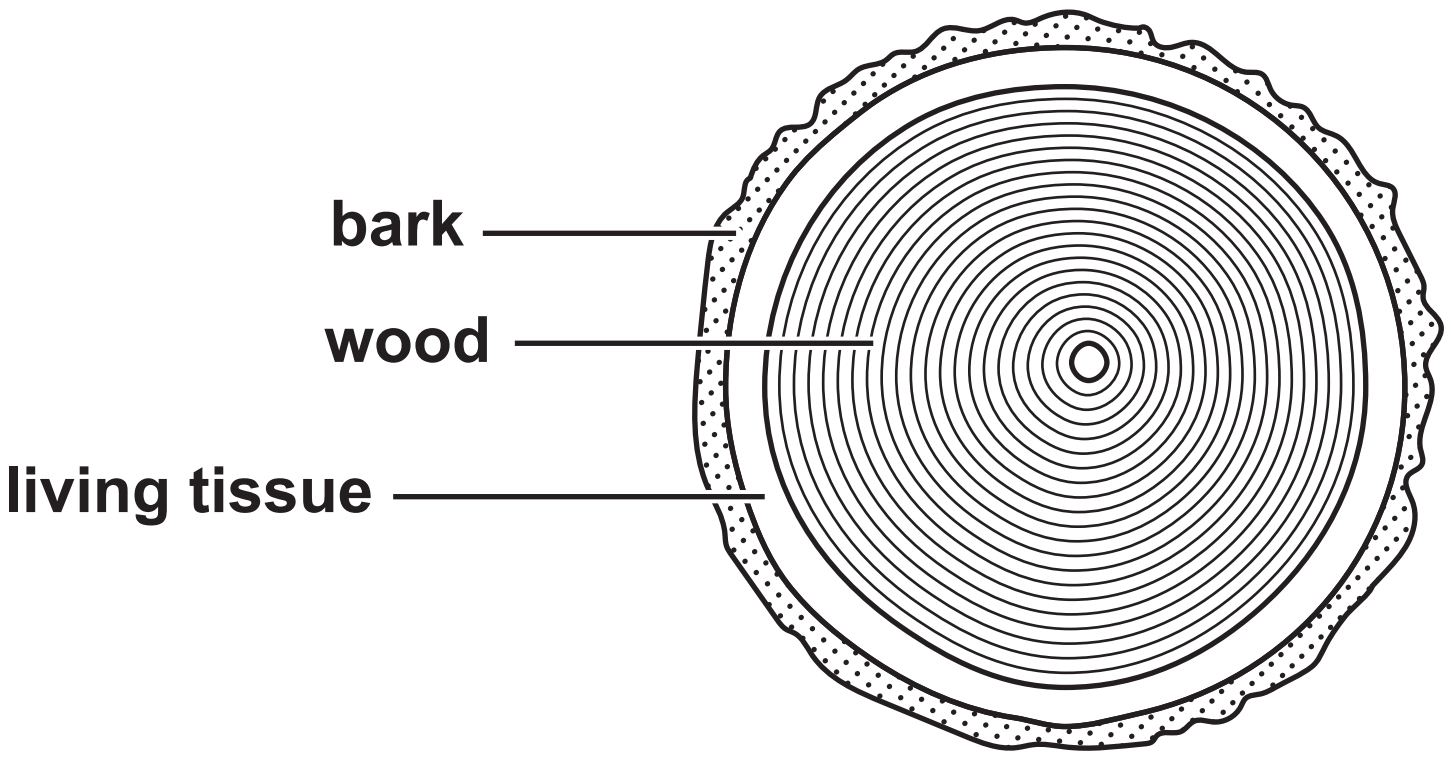
Question 7(c) FIGURE 14 continued.

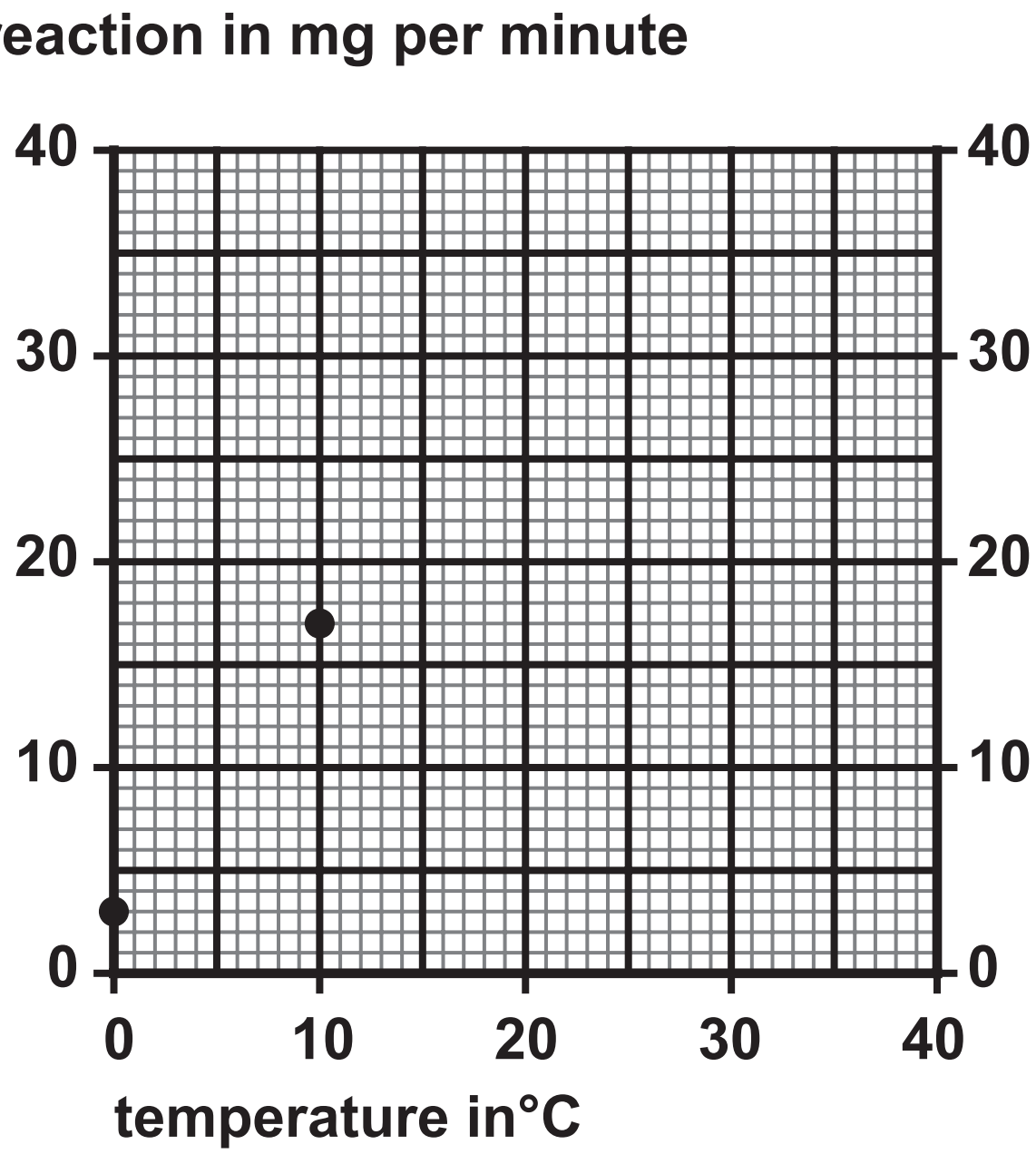
plant stem



section through a woody stem

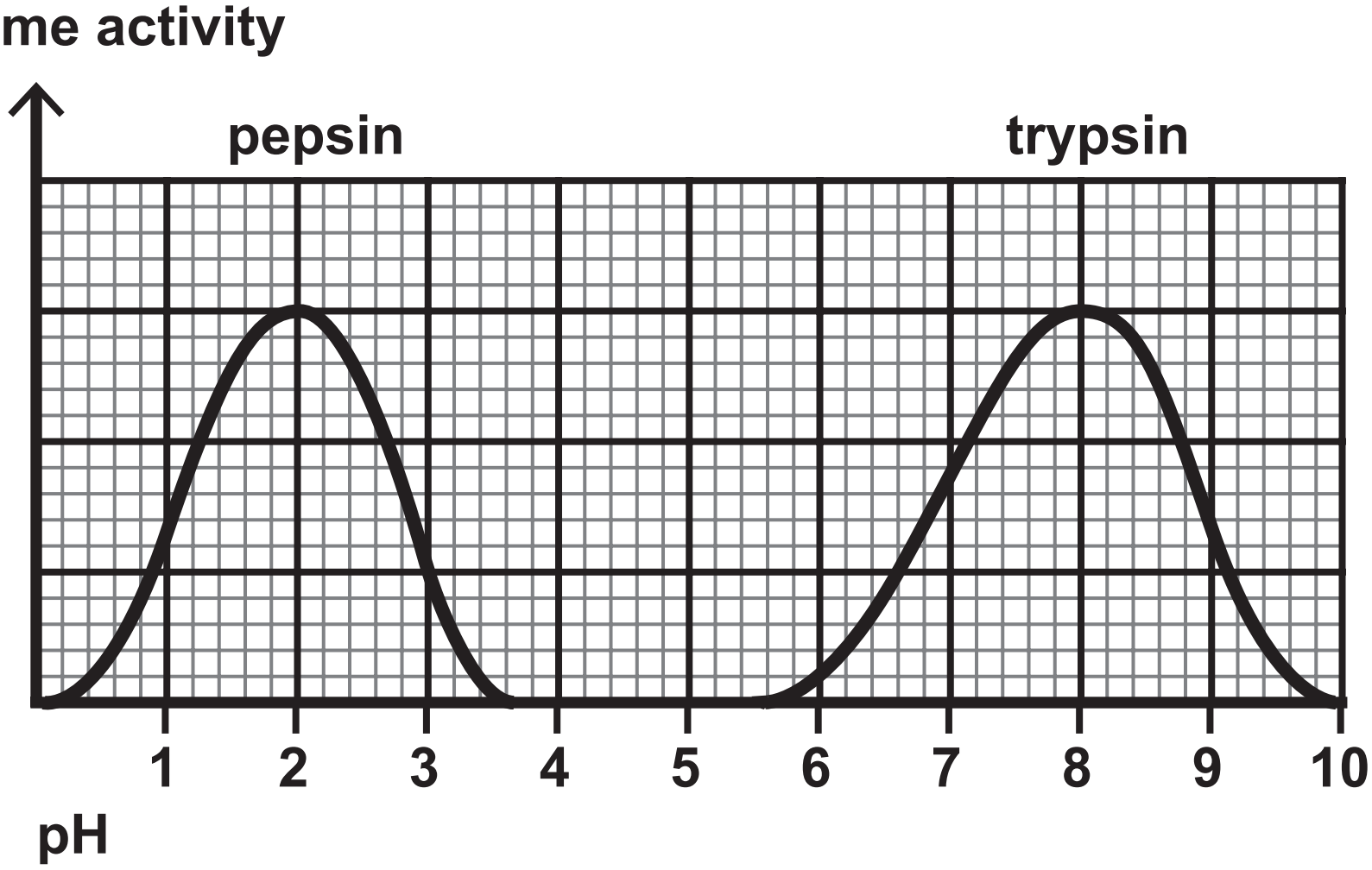


Question 8(a)


rate of reaction in mg per minute
40
30
20
10
0
0
10
20
30
40
temperature in°C

Question 8(b)

FIGURE 16



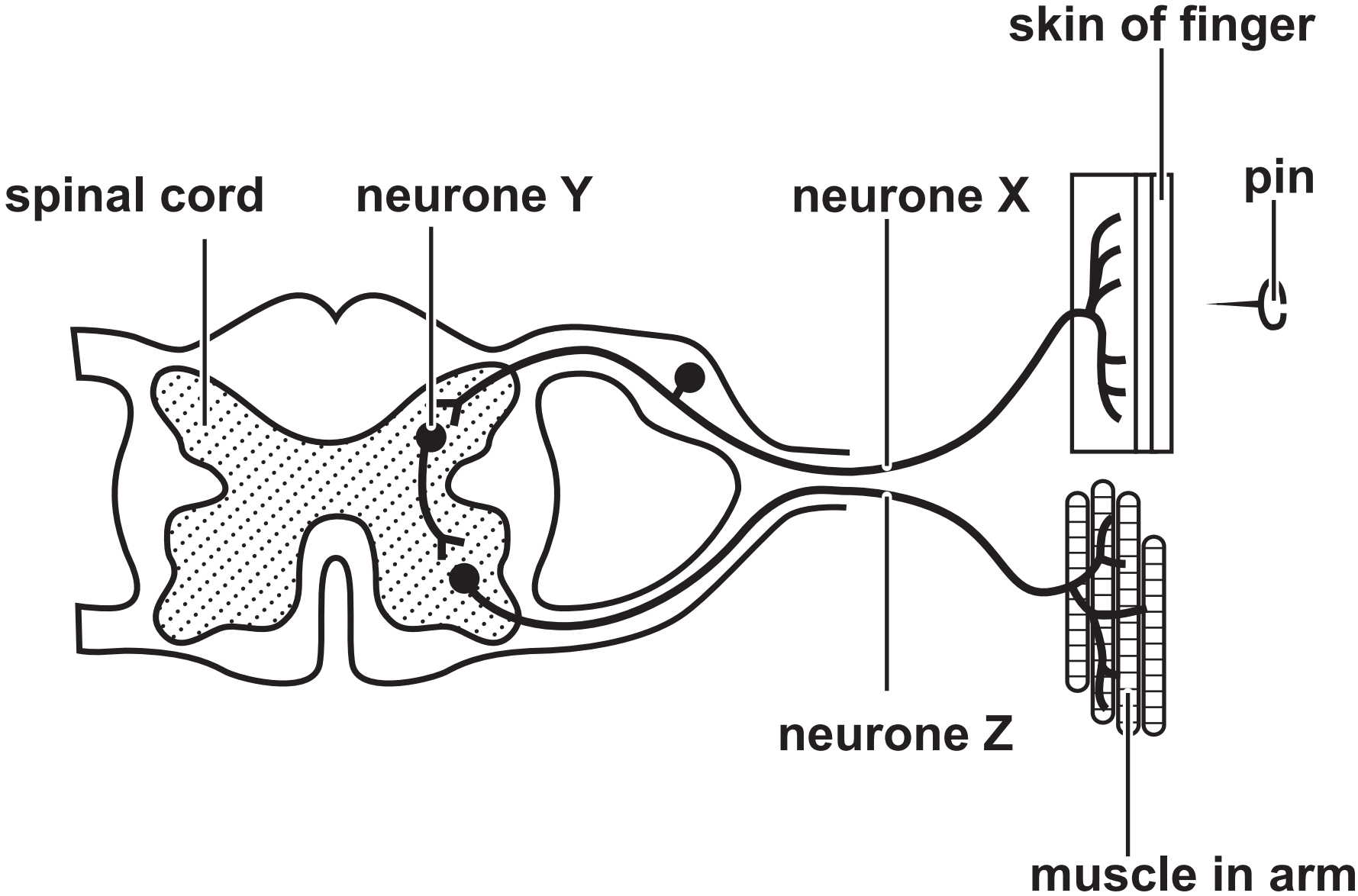
Question 9(b)

FIGURE 17

year	number of measles cases reported
1985	97 408
1995	7 447
2005	2 089
2015	1 193

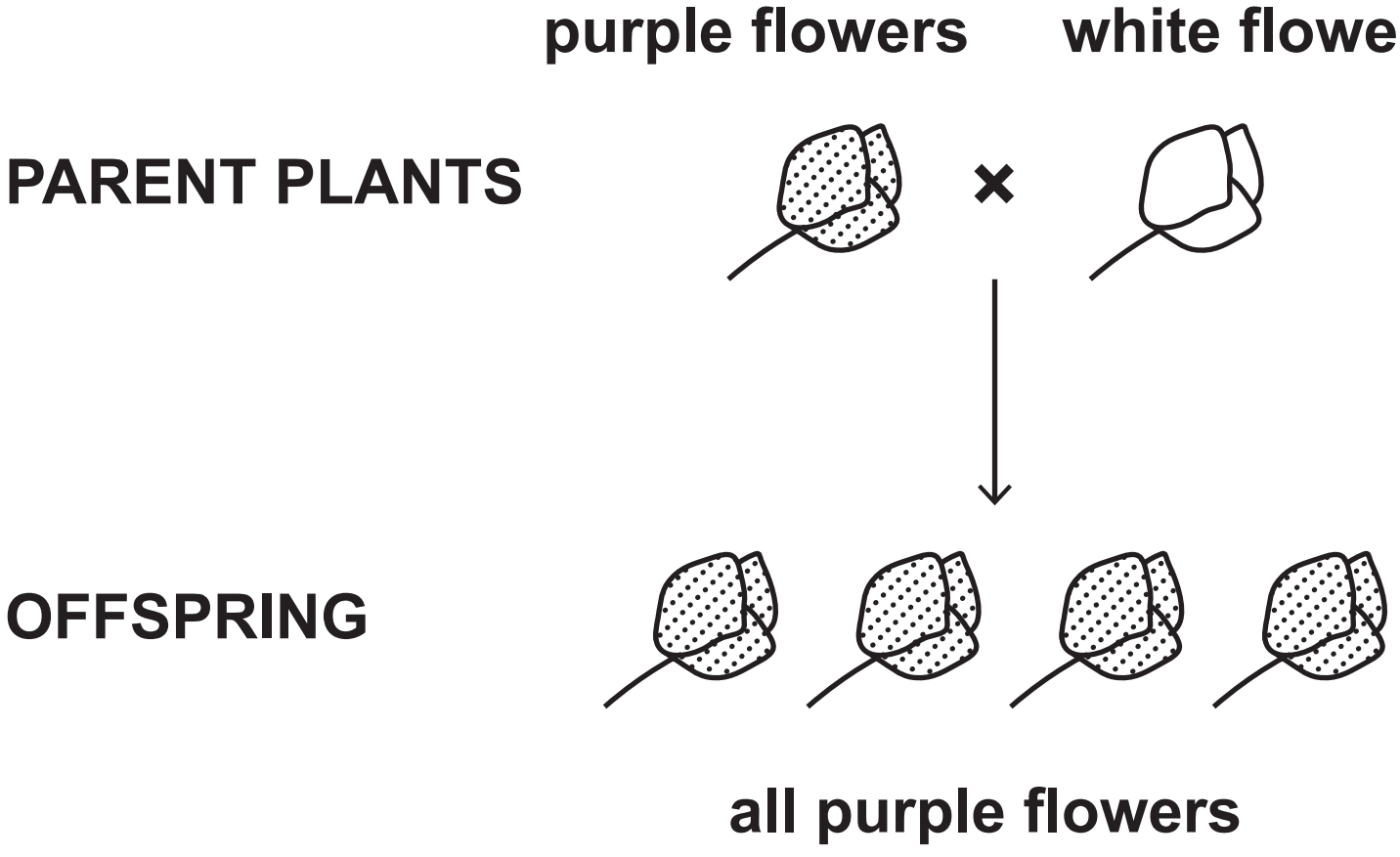
Question 9(d)(ii)

FIGURE 18



Question 10(a)

FIGURE 19



Question 10(a)(iii)

		white flowers	
purple flowers	A		
	a		

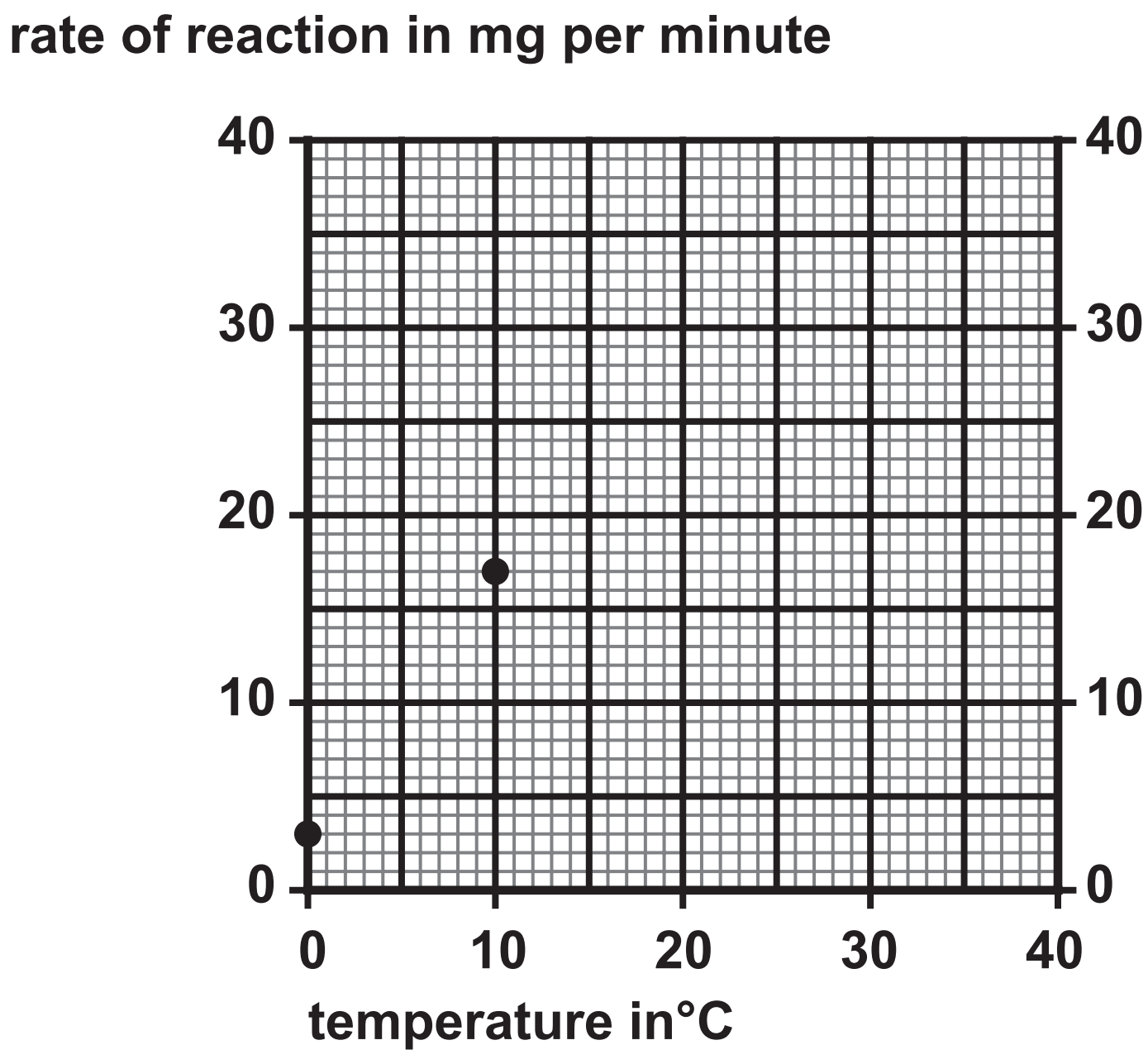
Question 1(b)

body defence	function
hydrochloric acid	makes antibodies
skin	destroys pathogens in the stomach
	makes antigens
	moves pathogens away from the lungs
	stops pathogens entering the body

Question 4(c)

type of cell produced	type of cell division	number of daughter cells produced
body cell	mitosis	
gamete		

Question 8(a)


rate of reaction in mg per minute
40
30
20
10
0
0
10
20
30
40
temperature in°C

Question 10(a)(iii)

		white flowers	
purple flowers	A		
	a		

Question 4
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Question 6(d)
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Question 7(c)
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