

Biology
PAPER 1
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.

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Question 1(b)

disease

main way the
disease is spread

cholera

• in the air

• by animal vectors

• in body fluids

malaria

• by a vaccination

• in water

Question 1(b)

disease

main way the
disease is spread

cholera

• in the air

• by animal vectors

• in body fluids

malaria

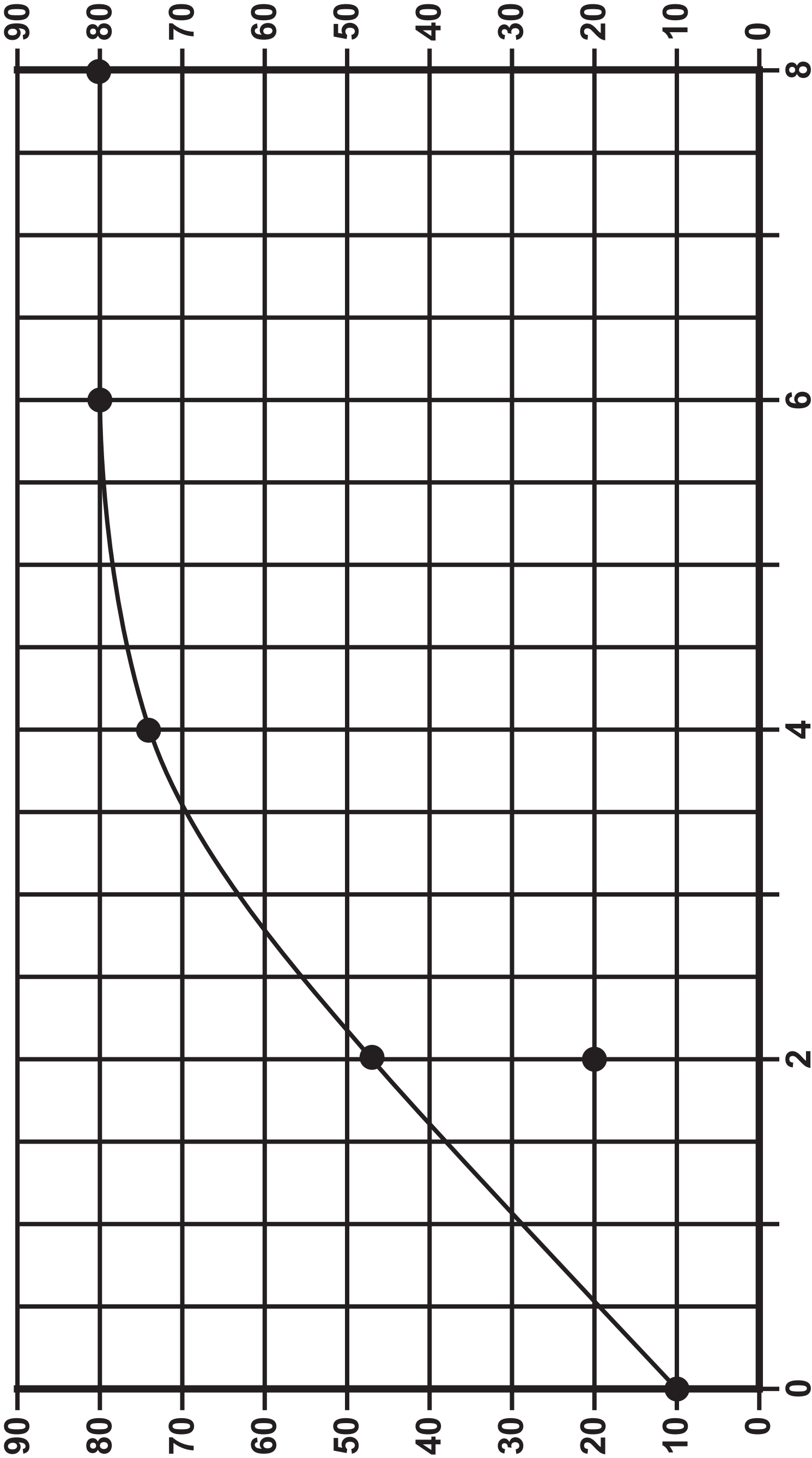
• by a vaccination

• in water

FIGURE 2

Key: —●— results at 20 °C

Number of bacteria in thousands

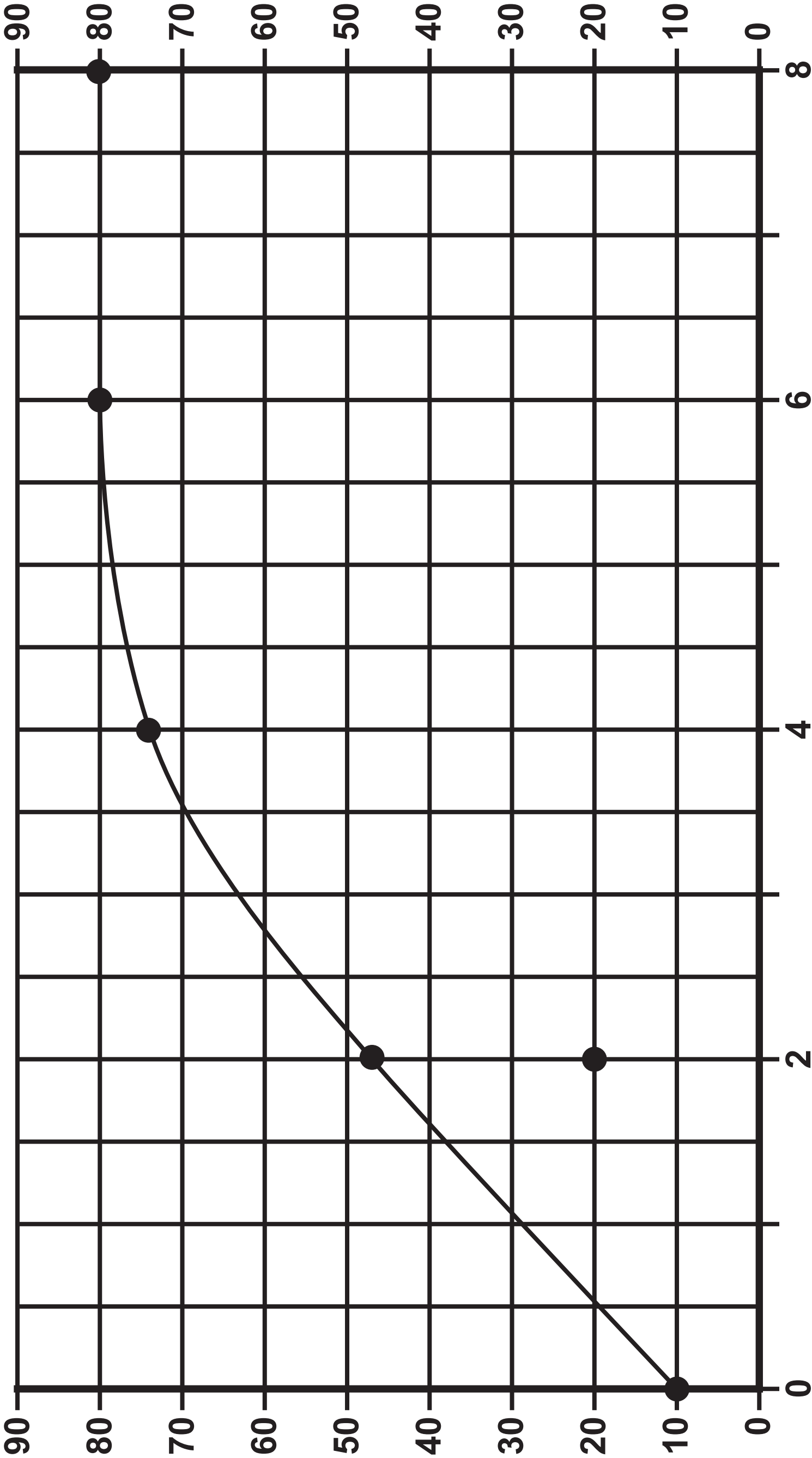


Time in hours

FIGURE 2

Key: —●— results at 20 °C

Number of bacteria in thousands



Time in hours

Question 2(a)

FIGURE 3

Tool P

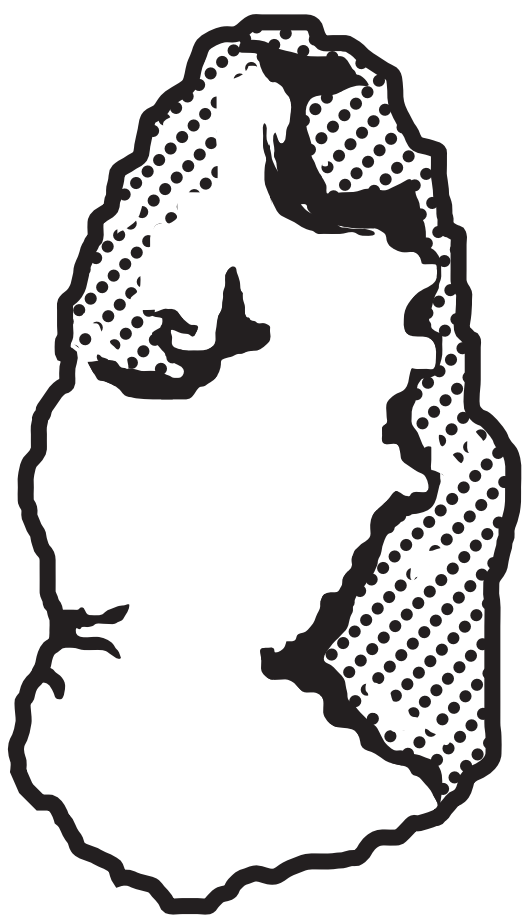
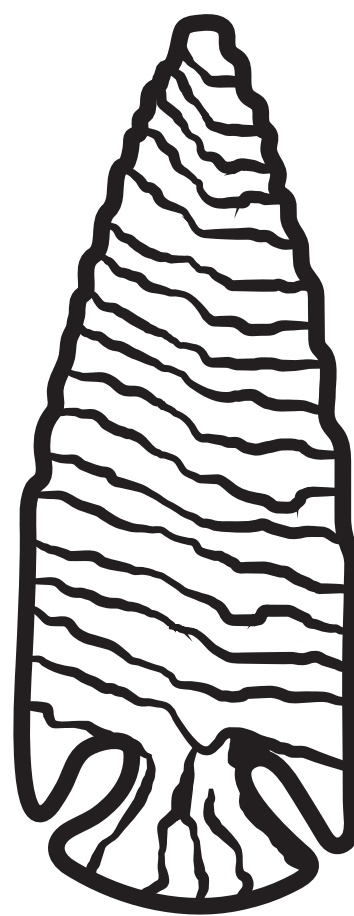


FIGURE 4

Tool Q



Question 3(b)

FIGURE 5

Key

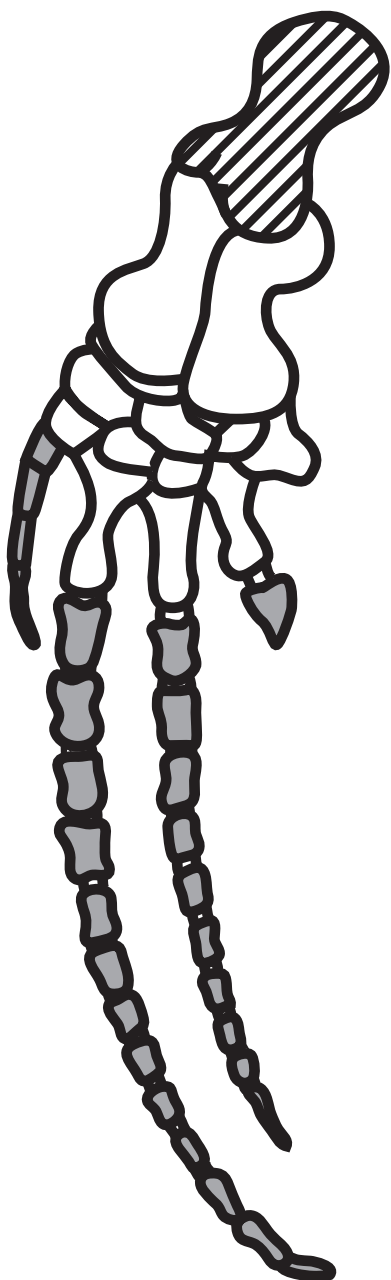


humerus

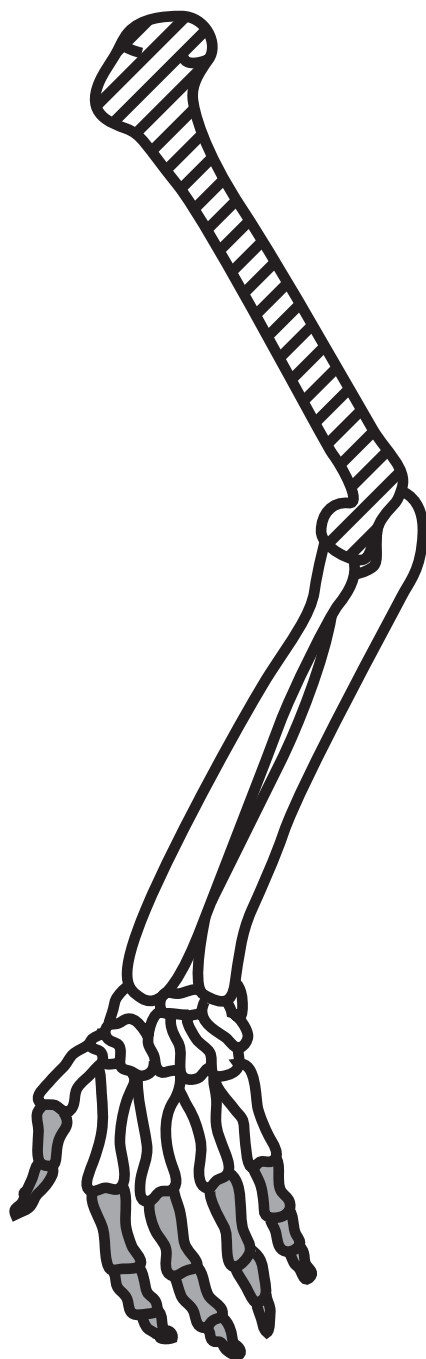


phalanges

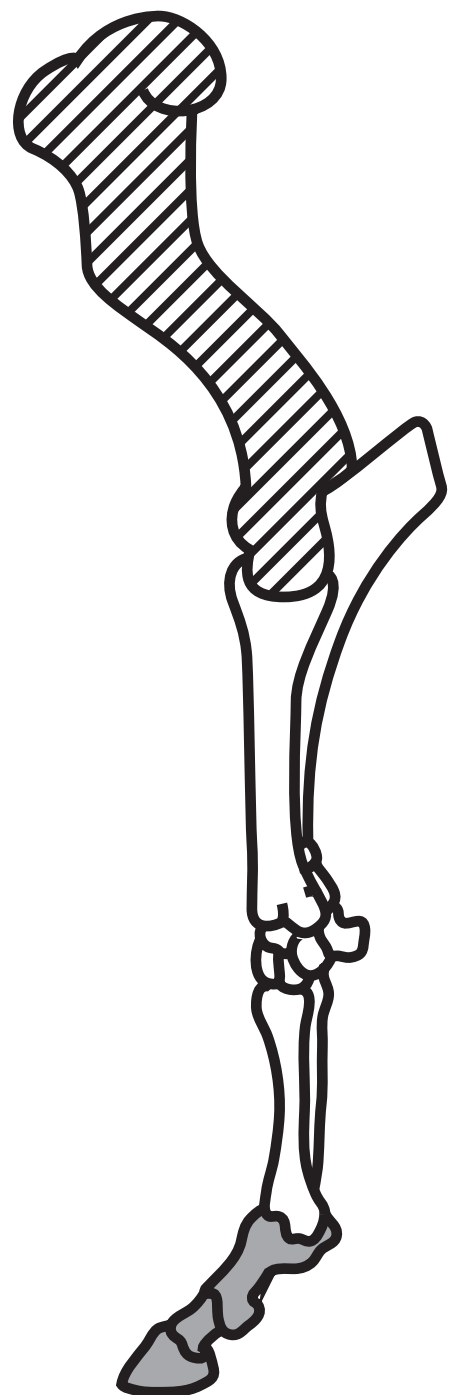
whale



human



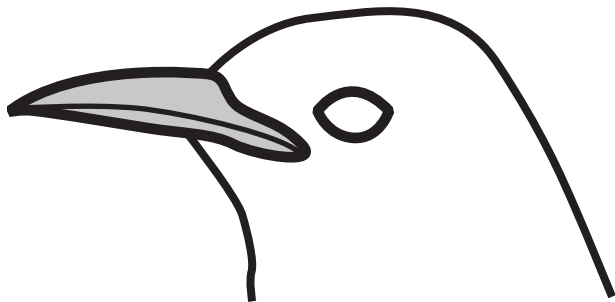
horse



Question 3(c)

FIGURE 6

Species A



Species B

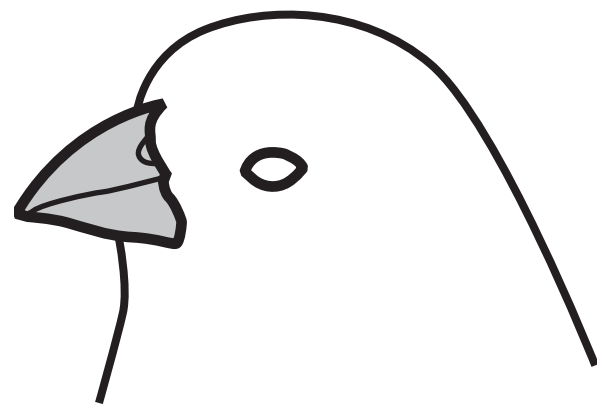
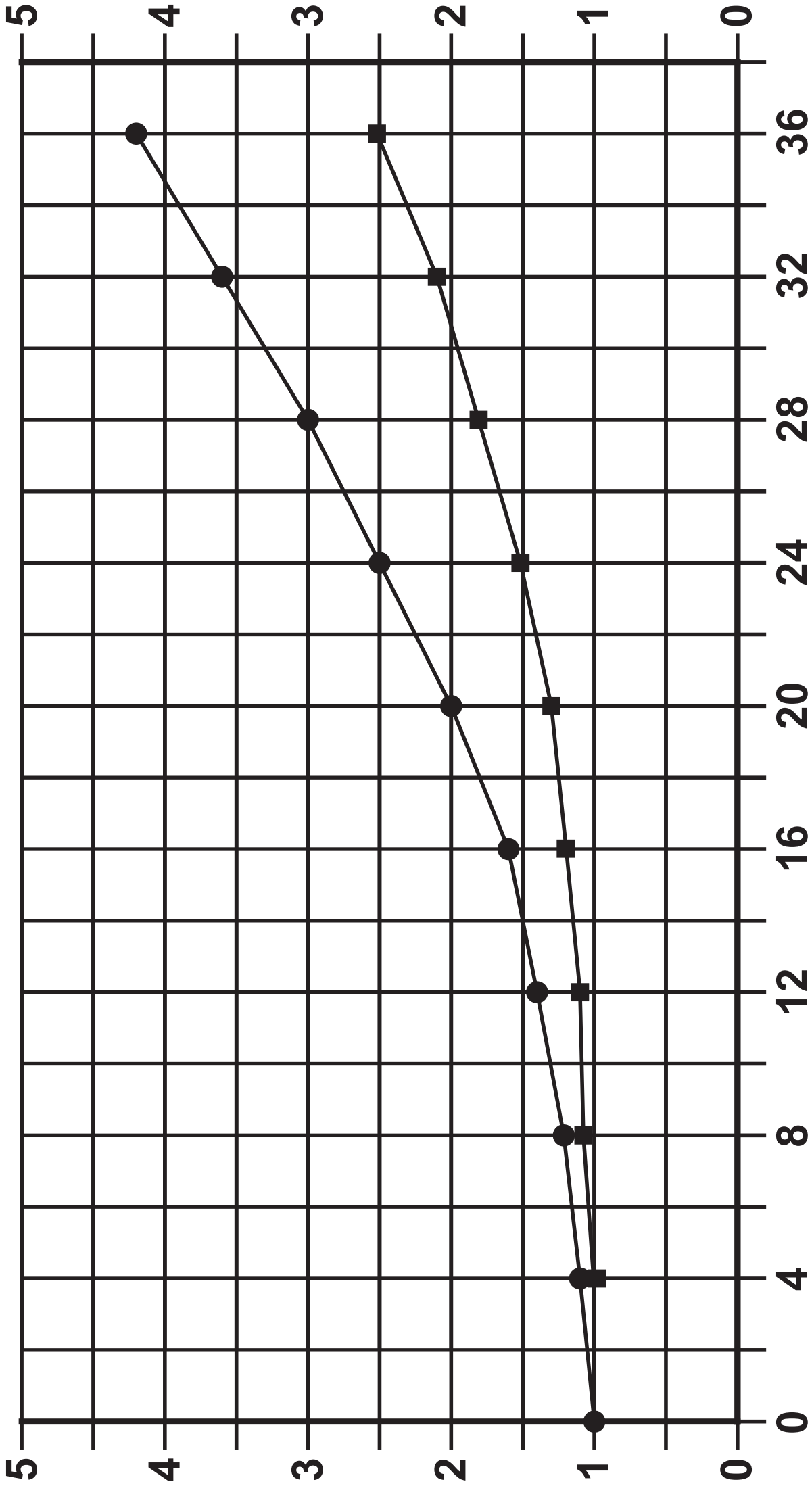


FIGURE 7

- Key
- drinks alcohol on its own
 - drinks alcohol with meals

Relative risk of developing
cirrhosis of the liver



Number of units of alcohol consumed per week

Question 4(c)

FIGURE 8

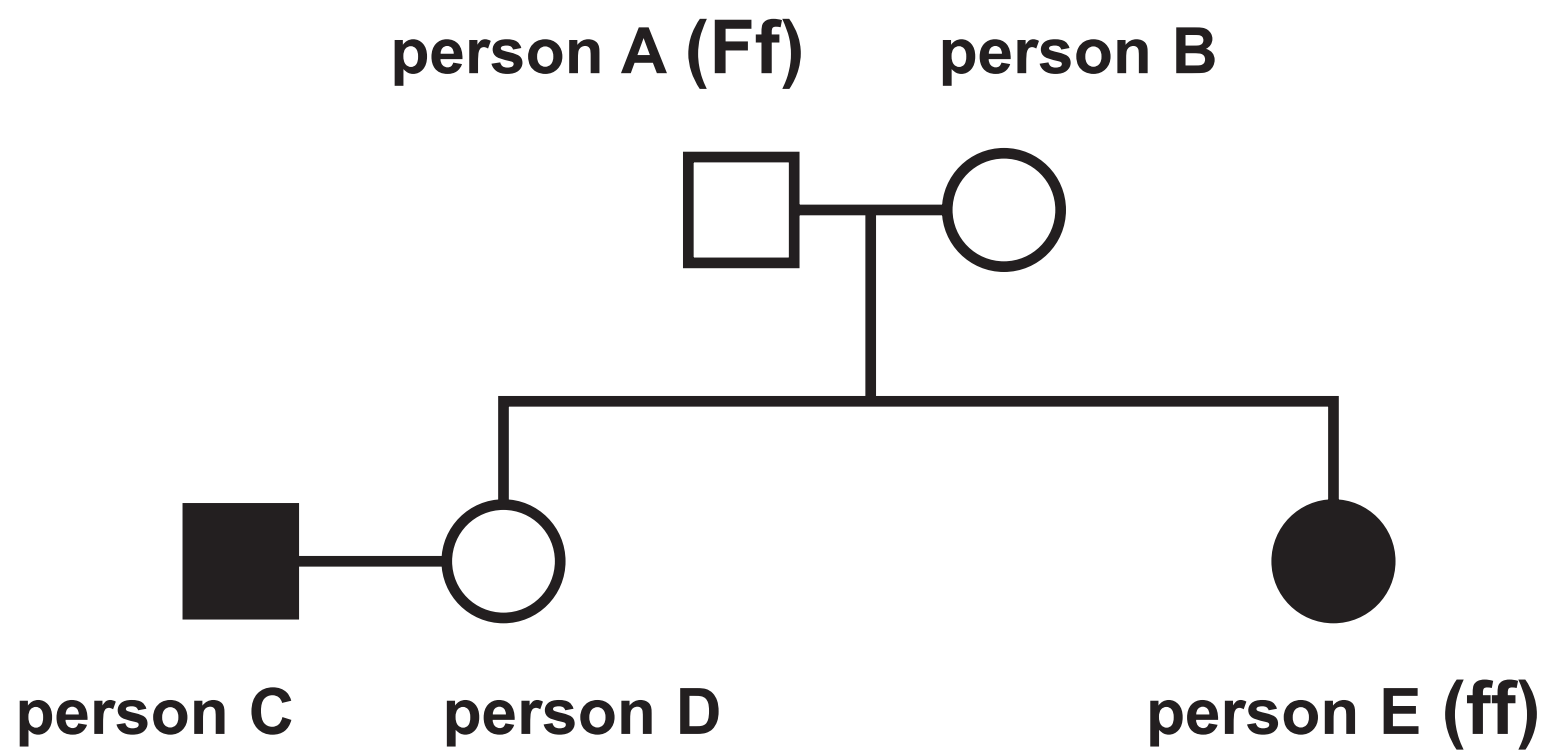
Key

○ female without cystic fibrosis

● female with cystic fibrosis

□ male without cystic fibrosis

■ male with cystic fibrosis



Question 5(a)

FIGURE 9



Question 5(b)

FIGURE 10

Temperature in °C	Number of plantlets produced
5	0
10	0
15	2
20	12
25	8
30	0

Question 5(d)

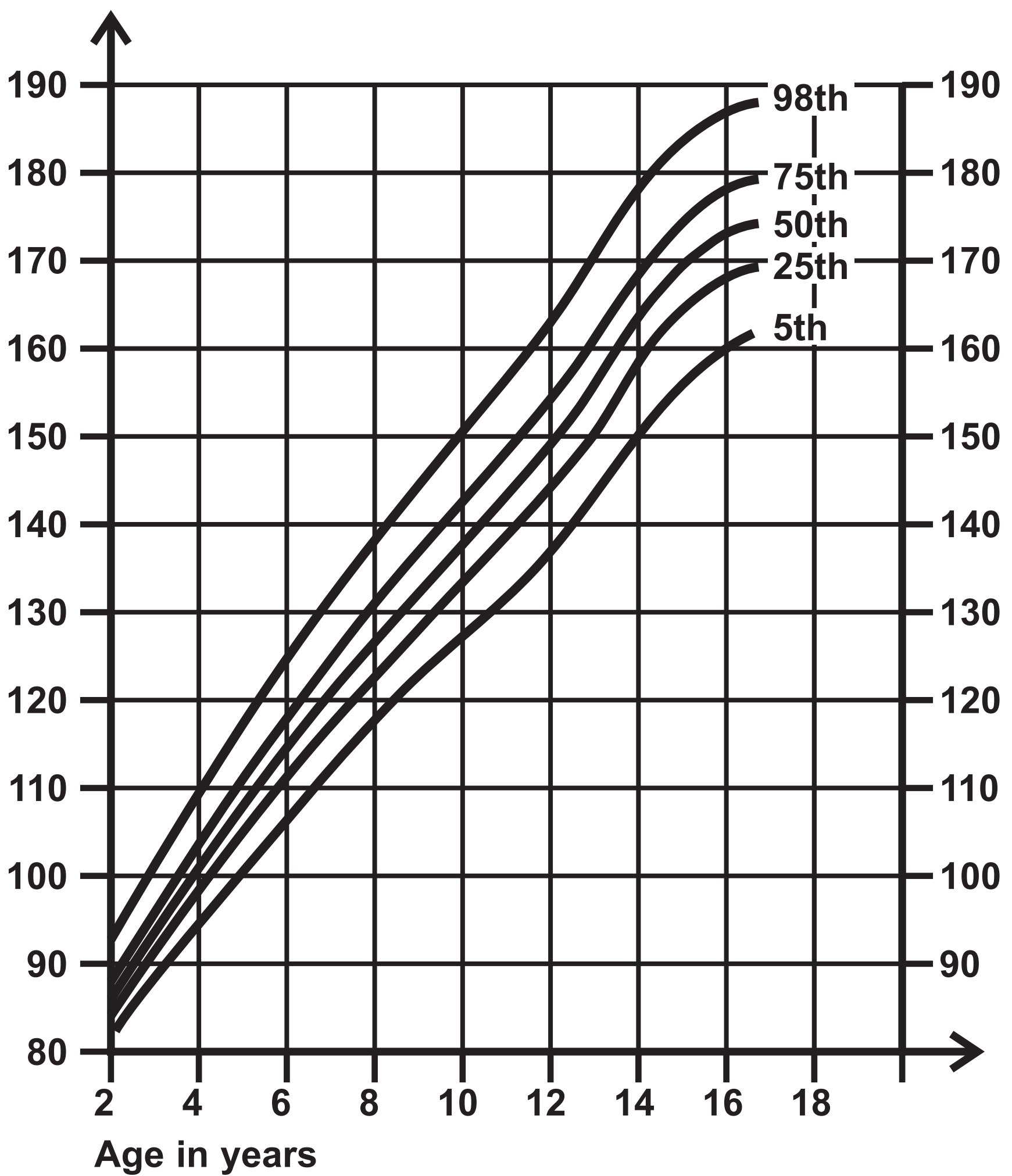
FIGURE 11

characteristic	plant K	plant L	plant M
size of leaves	small	large	small
striped leaves	none	none	green and white
flowers	small white	large white	large pink

Question 6(a)

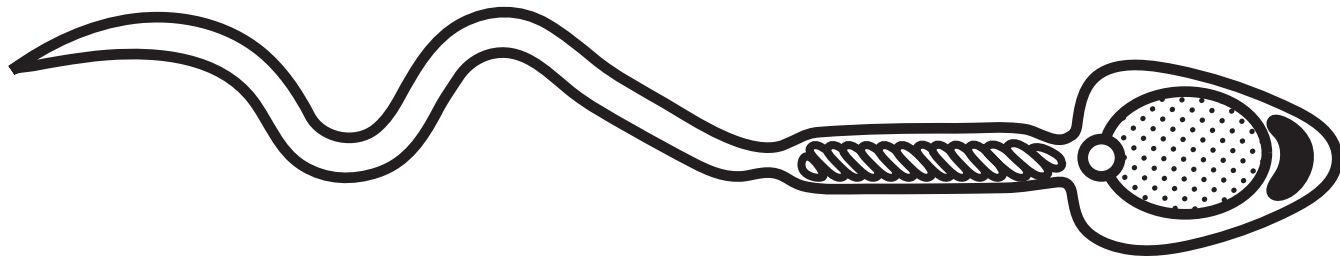
FIGURE 12

Height in cm



Question 6(b)(i)

FIGURE 13



Question 6(b)(ii)

TABLE 1

	mitosis	meiosis
number of daughter cells produced		
number of chromosomes in each daughter cell		

Question 6(b)(ii)

TABLE 1

	mitosis	meiosis
number of daughter cells produced		
number of chromosomes in each daughter cell		

Question 7

FIGURE 14

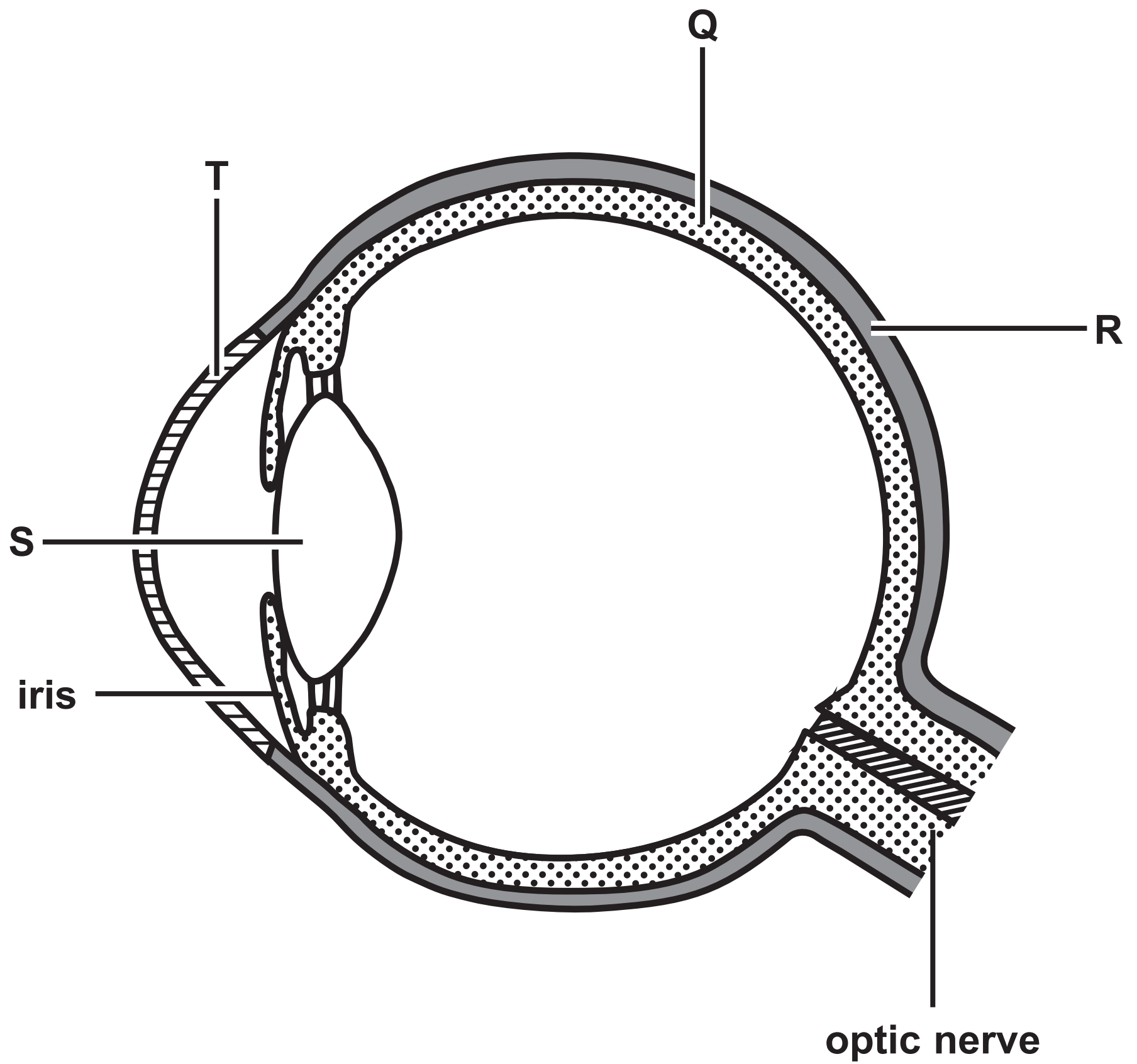
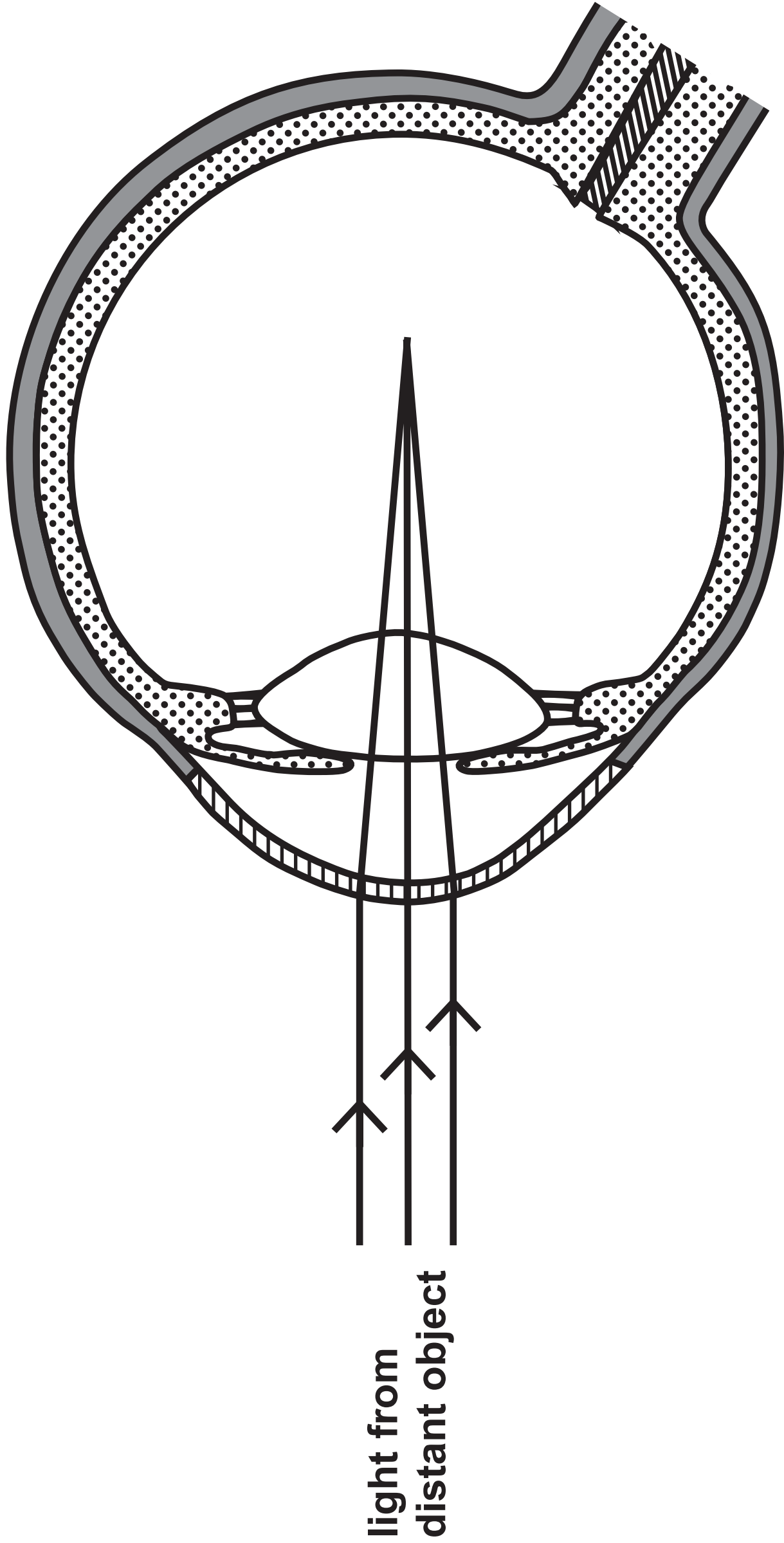


FIGURE 15



Question 8(b)

FIGURE 16

T	T	G	A	T	T	G	C	G	T	A	A
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[illegible]

Question 8(b)

FIGURE 16

T	T	G	A	T	T	G	C	G	T	A	A
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[illegible]

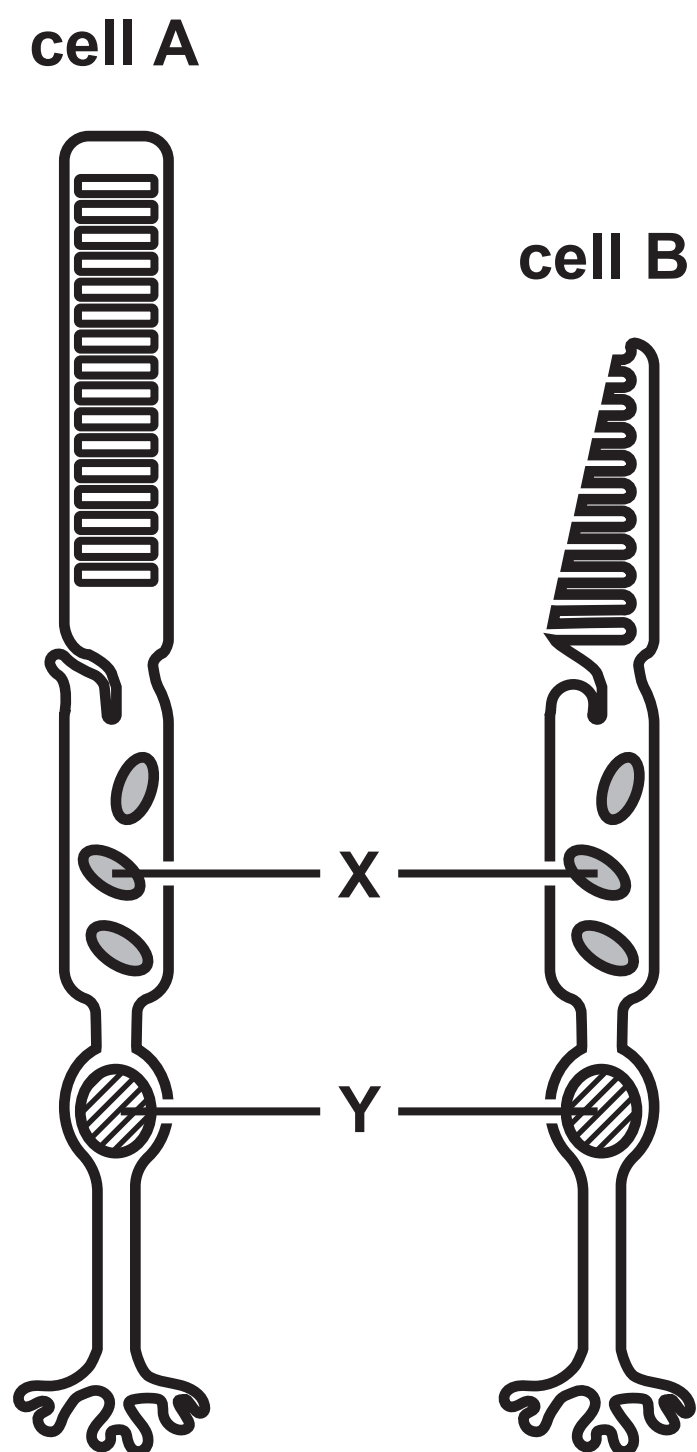
Question 9(a)

FIGURE 17

sexually transmitted infection (STI)	number of people diagnosed per 1000 of the population
chlamydia	3·7
gonorrhoea	0·8
genital herpes	0·6
genital warts	1·1
syphilis	0·1

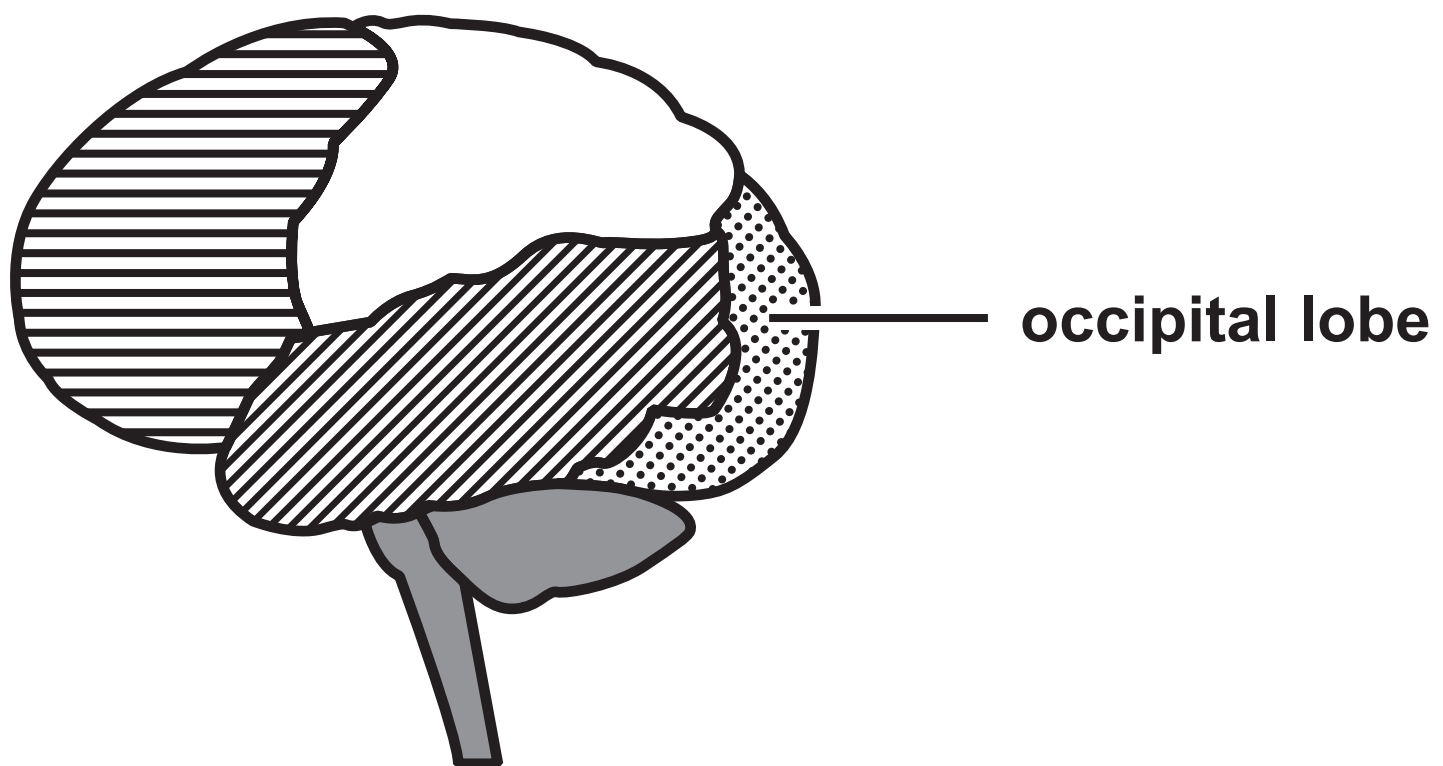
Question 10(a)

FIGURE 18



Question 10(b)(ii)

FIGURE 19



Question 3(c)

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Question 10(a)

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Question 10(b)(ii)

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