

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

Biology  
PAPER 2  
Higher Tier

Friday 9 June 2023 – Afternoon

Diagram Booklet

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

Surname					
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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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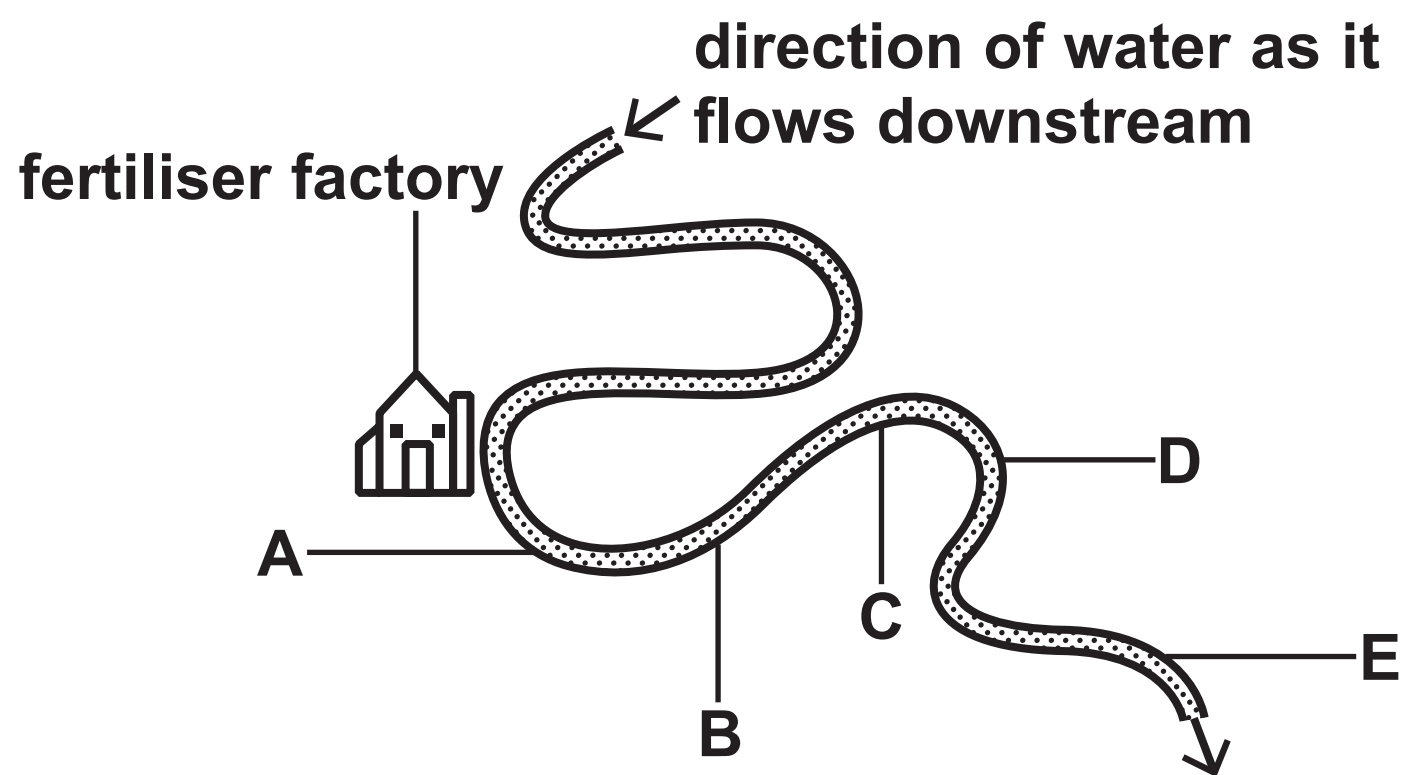
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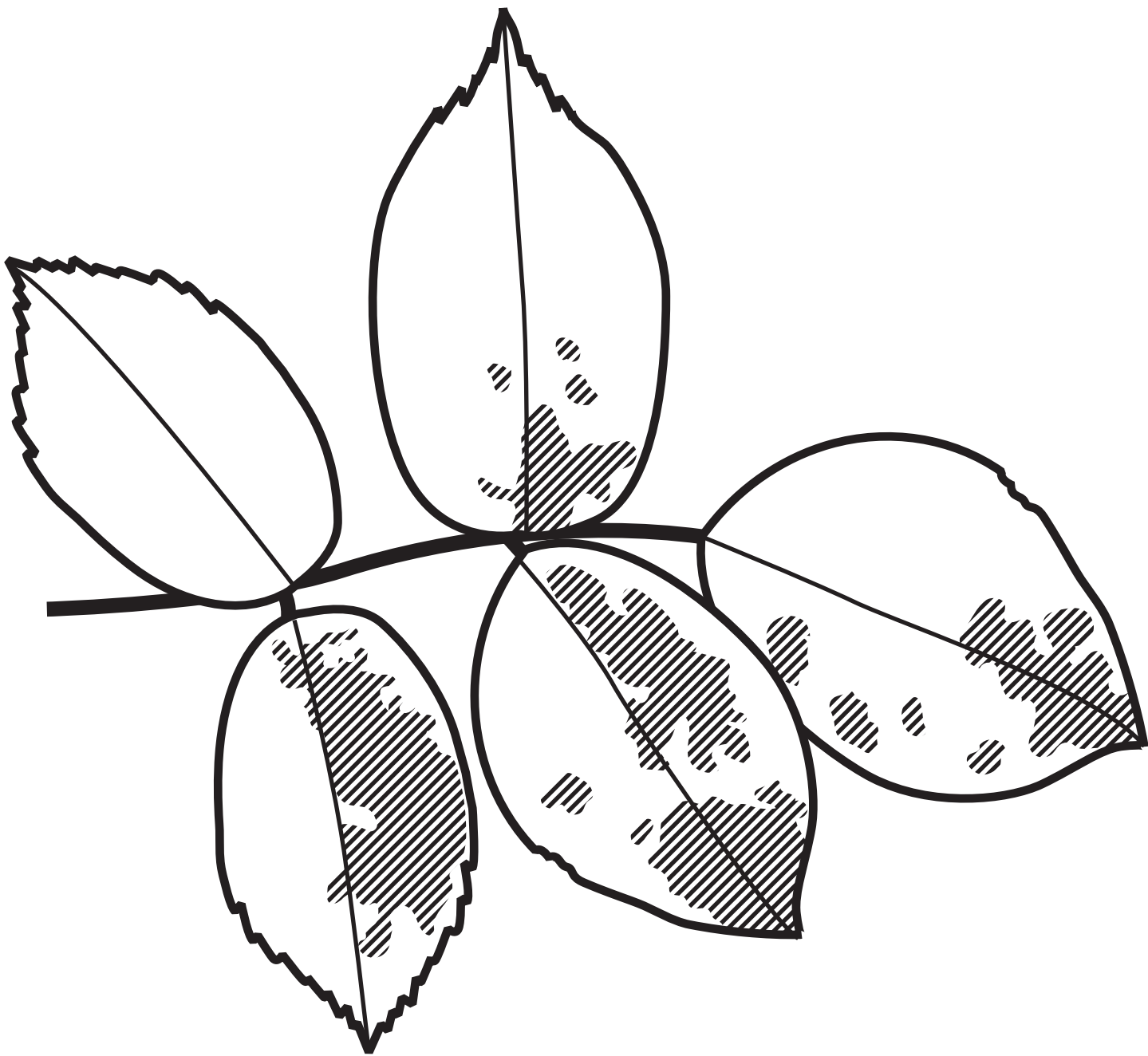
**Question 1(a)****FIGURE 1**

(continued on the next page)

1(a) continued.

FIGURE 2

point along stream	oxygen concentration (ppm)
A	1·5
B	2·7
C	3·4
D	4·4
E	4·5

**Question 1(b)****FIGURE 3**

## Question 2(a)

FIGURE 4

## KEY

———— person with diabetes

----- person who does not have diabetes

concentration of glucose in blood in  
mmol per dm<sup>3</sup>

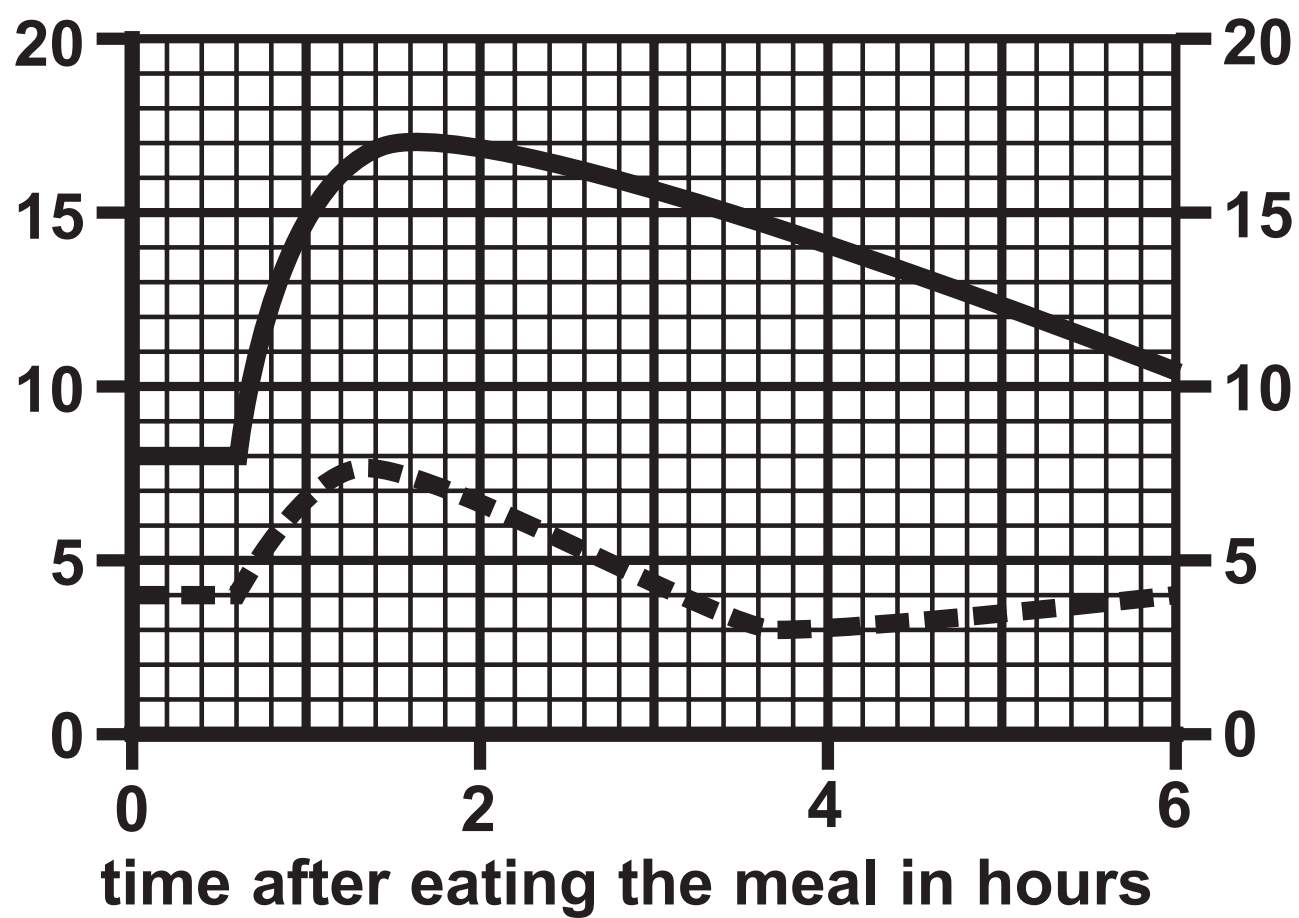


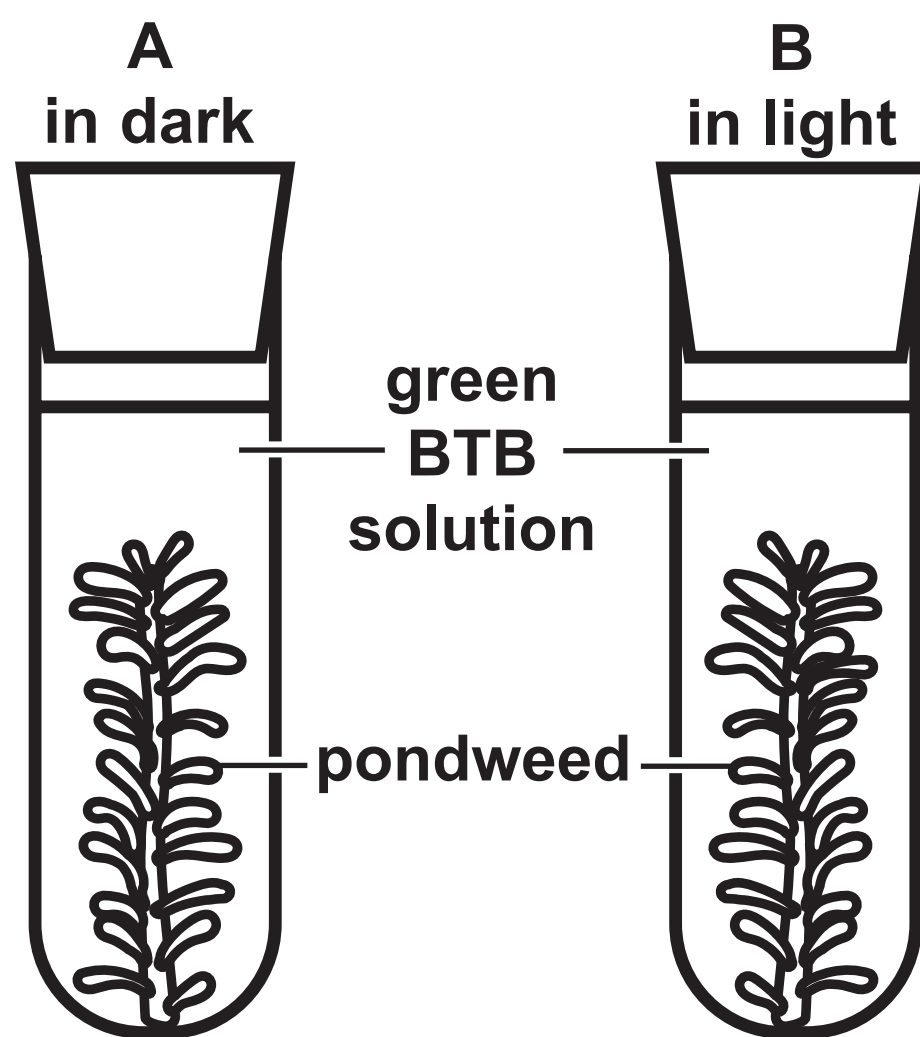
FIGURE 5

pH	4	5	6	7 (neutral)	8
colour	yellow	yellowy green	light green	green	blue



## Question 3(c)(ii)

FIGURE 6



(continued on the next page)

Question 3(c)(ii) continued.

FIGURE 7

Tube A (in dark)	Tube B (in light)
yellowy green	green

Question 4(a)

FIGURE 8

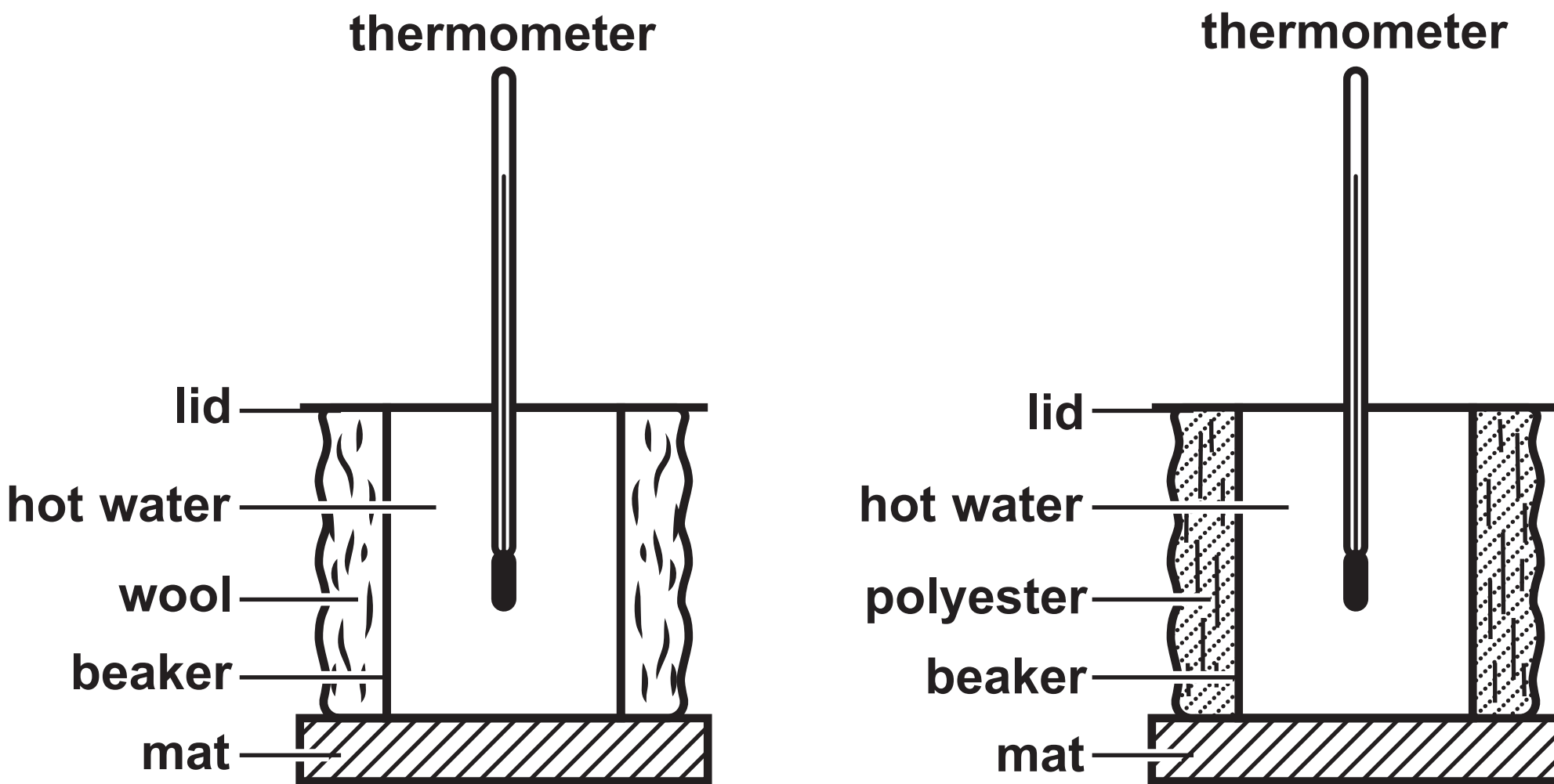


FIGURE 9

wool		polyester	
time in minutes	temperature in °C	time in minutes	temperature in °C
0	64	0	82
2	61	2	74
4	56	4	68
6	53	6	63
8	49	8	59
10	45	10	53
12	42	12	48

Question 5

FIGURE 10

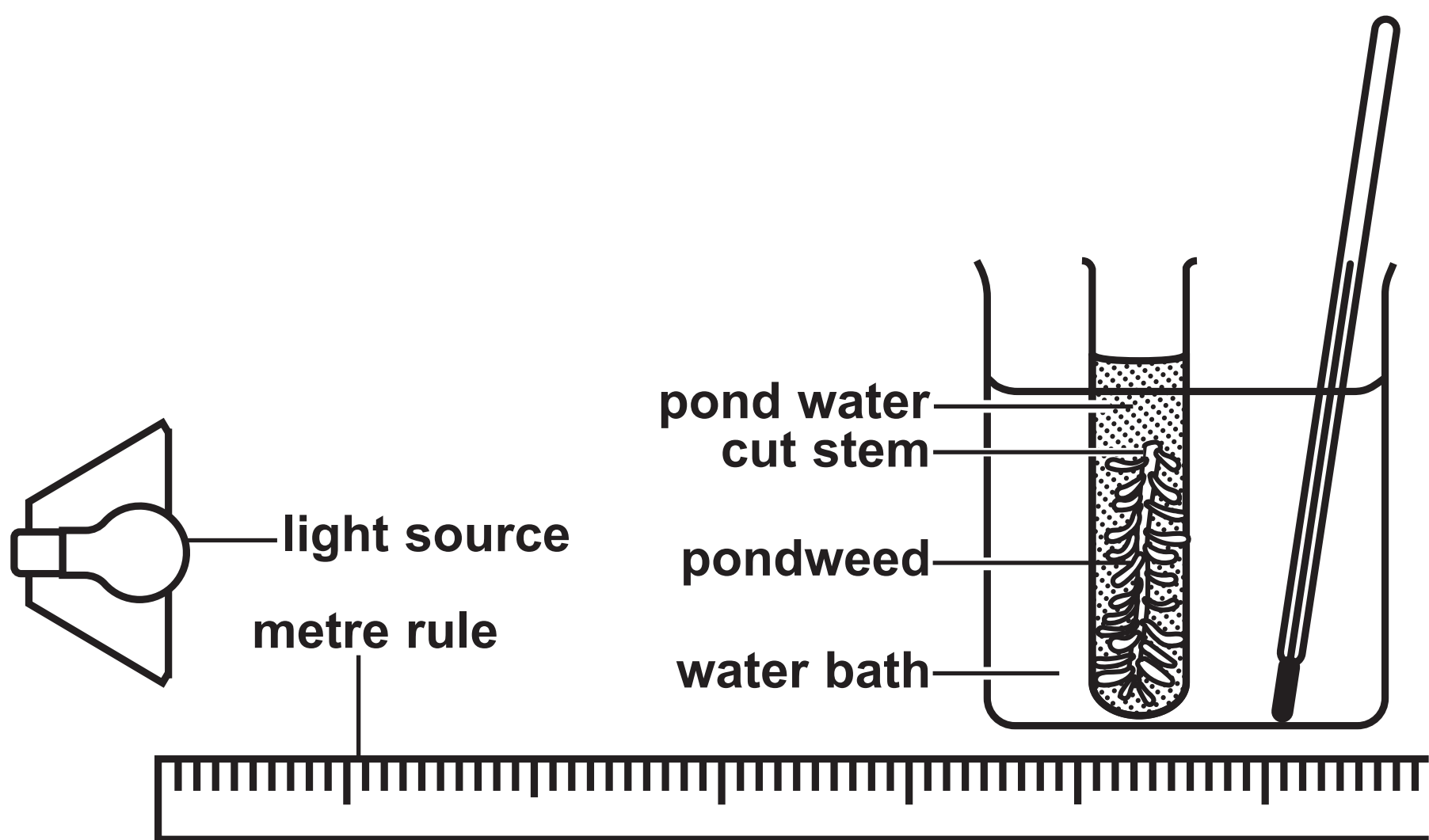
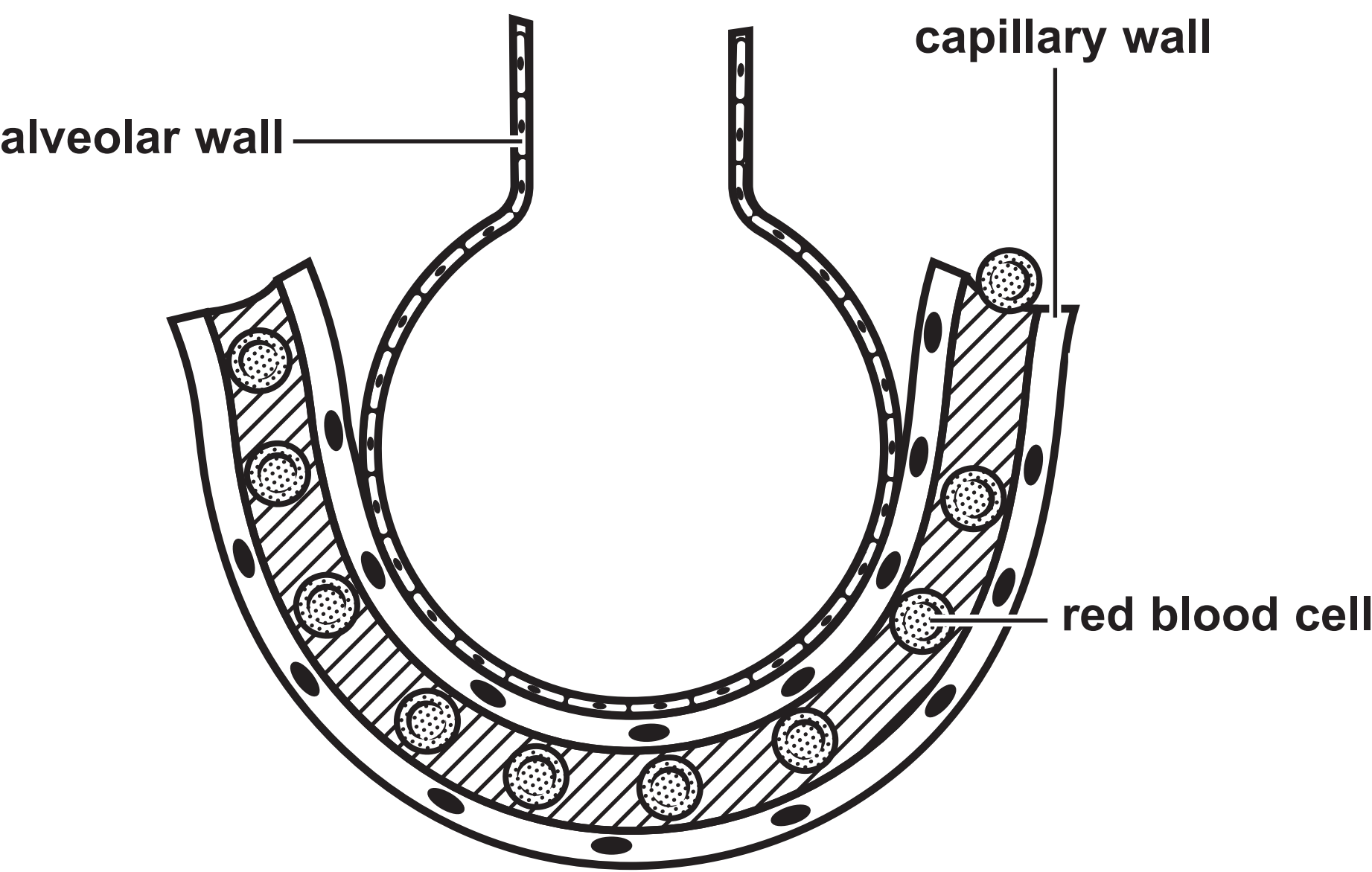


FIGURE 11

distance from the lamp in cm	number of bubbles in two minutes	light intensity in arbitrary units
5	62	0.04
10	60	0.01
15	43	0.0044
20	32	0.0025
25	11	?

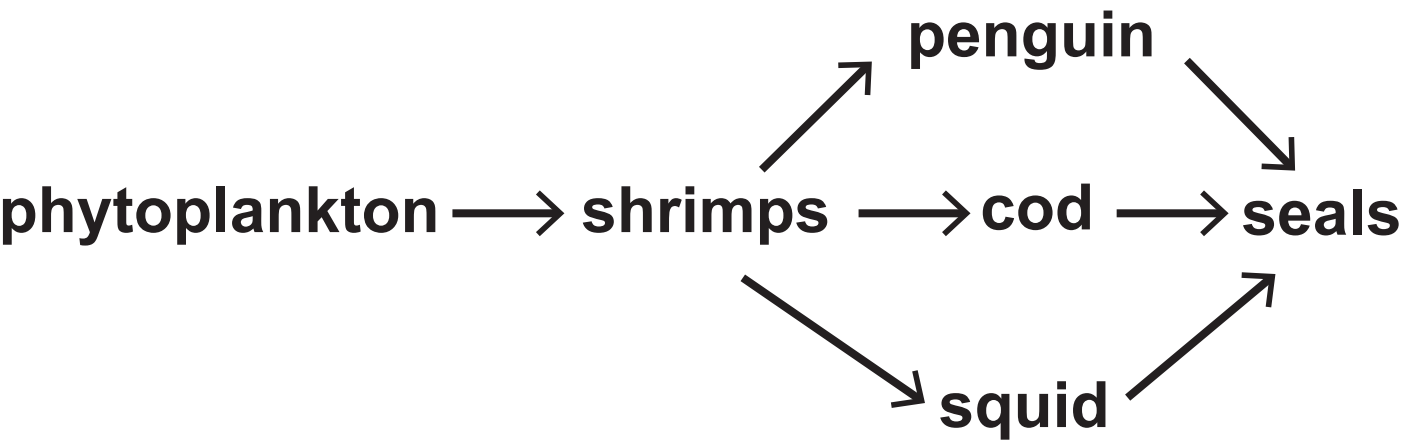
Question 6(c)

FIGURE 12



Question 7

FIGURE 13





Question 7(c)

FIGURE 14

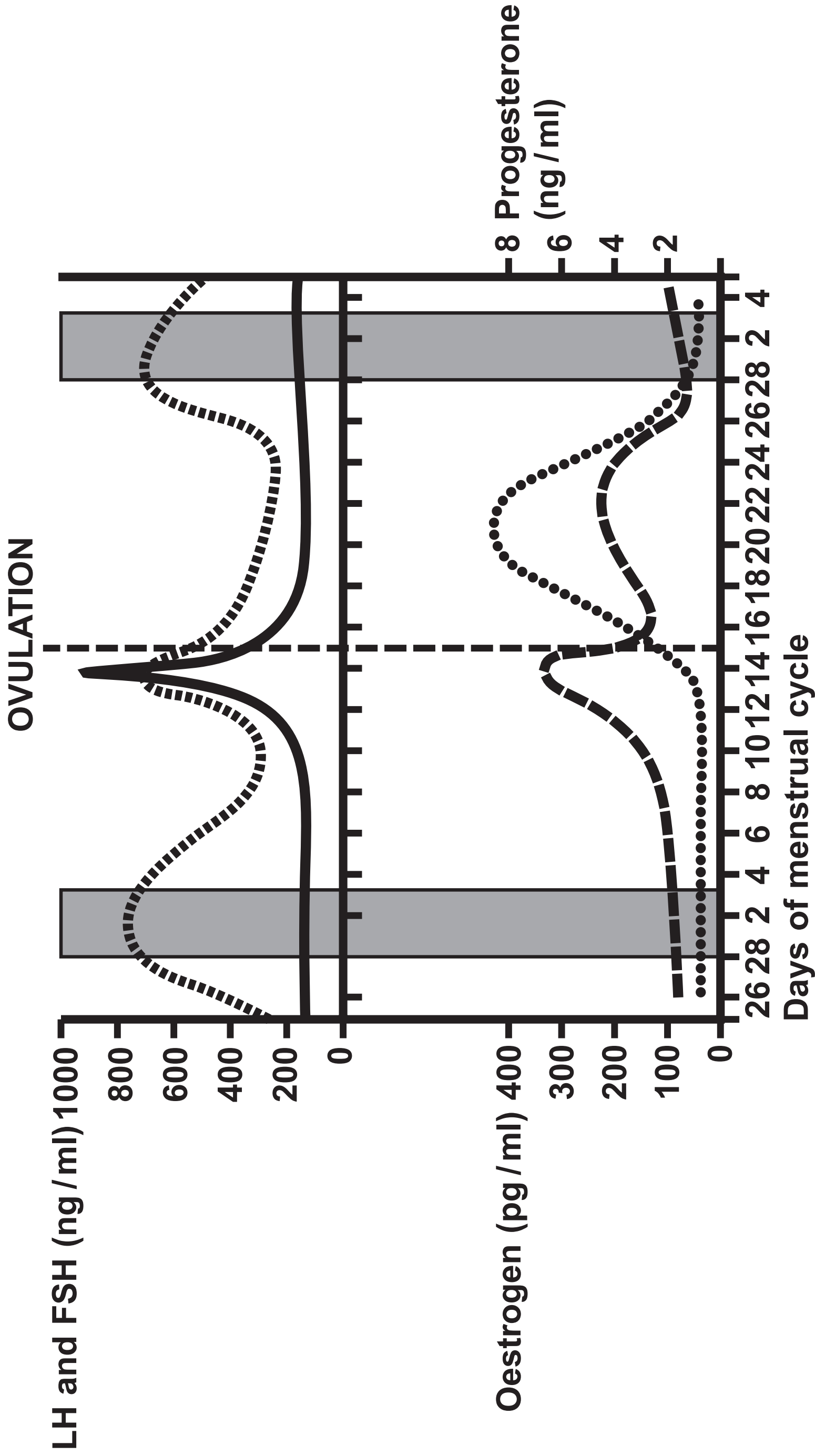
organism	biomass in tonnes
phytoplankton	200
shrimps	40
cod	10
seals	0.5

### Question 7(c)(i)

[illegible]

KEY  
—— LH  
..... FSH  
..... progesterone  
—— oestrogen

FIGURE 15



## Question 9

FIGURE 16

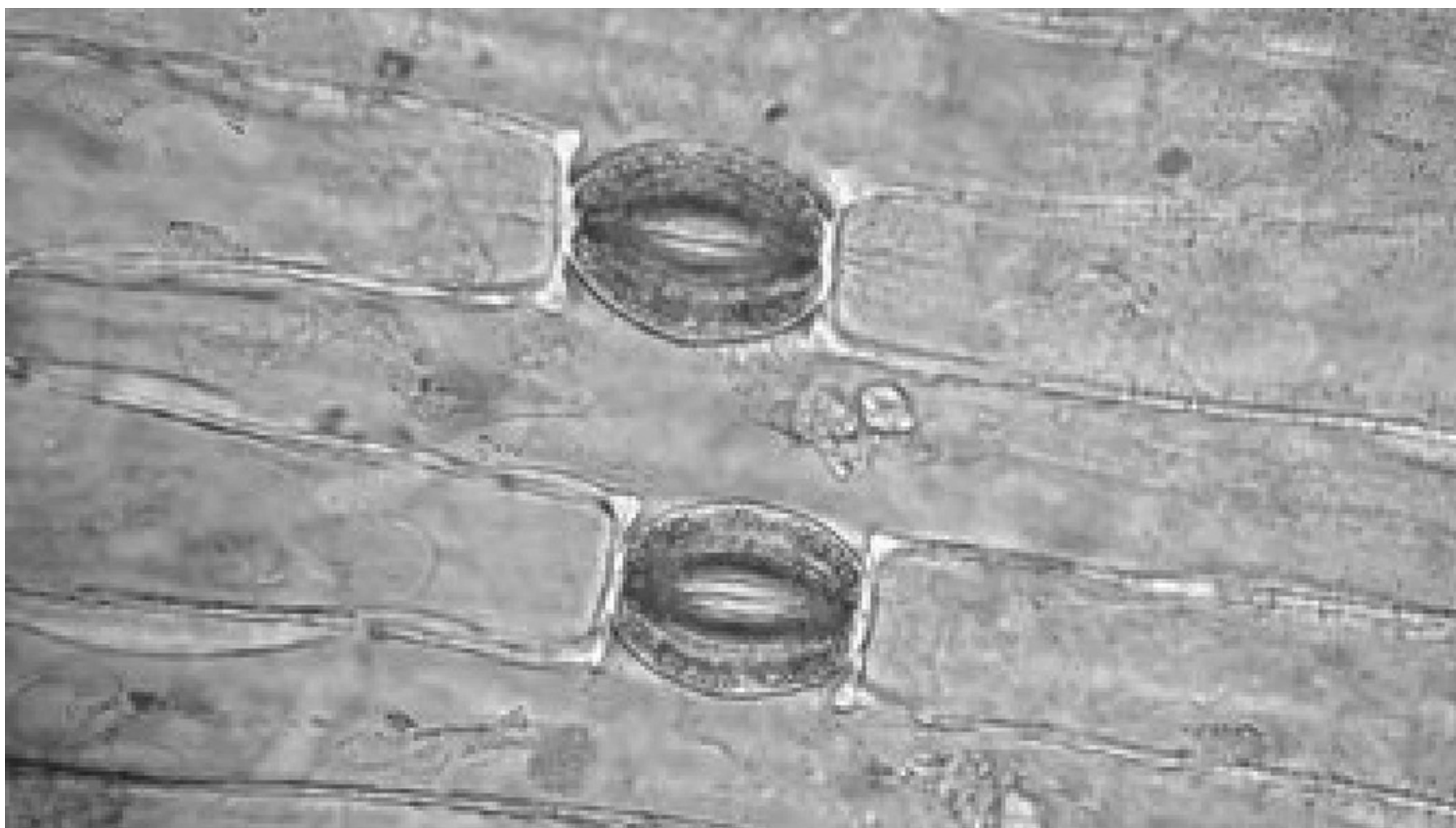
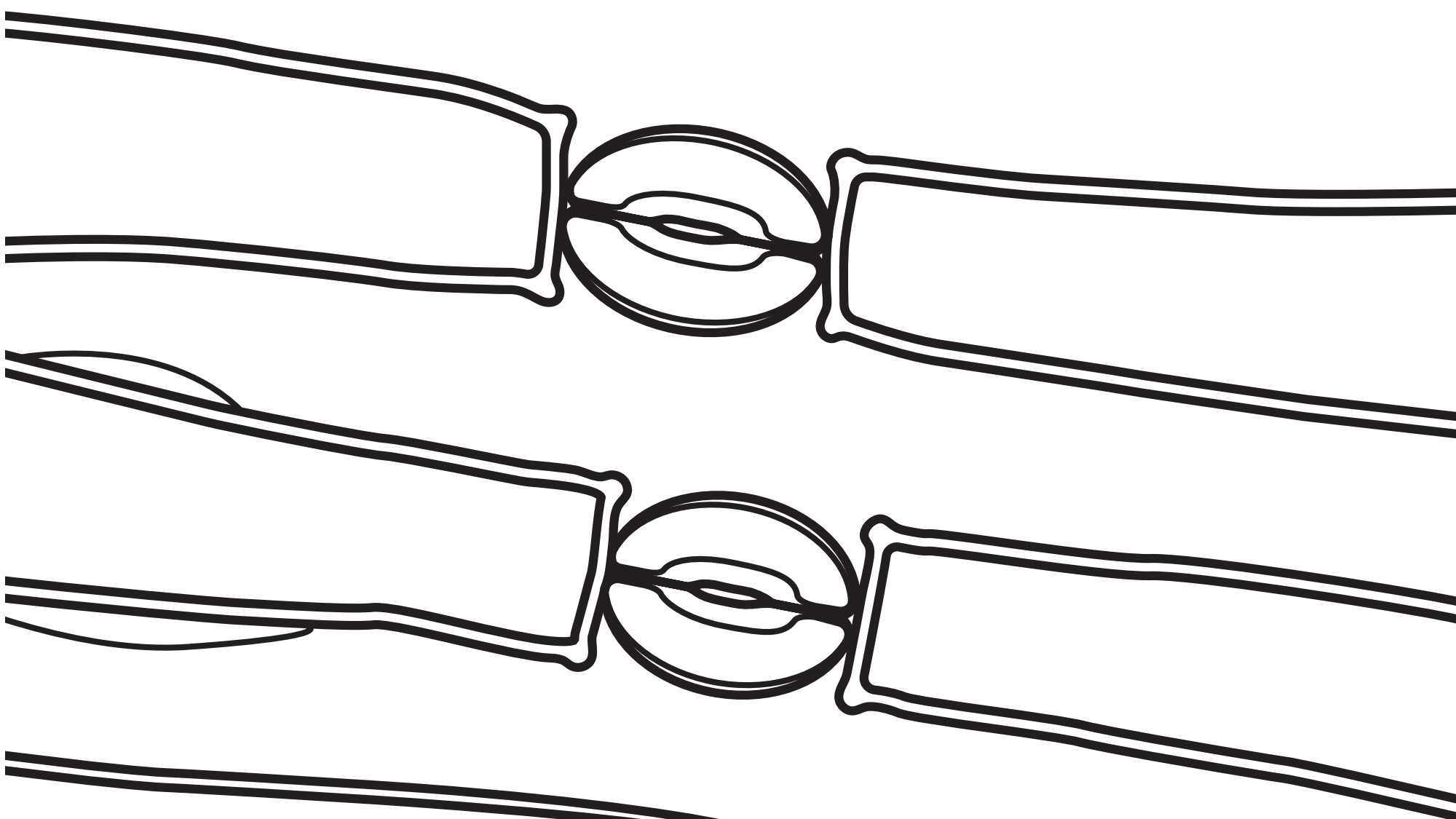


FIGURE 16 2D drawing



Question 10

FIGURE 17

molecule	diameter in nanometres (nm)
X	0.6
Y	1.0
Z	15

### Question 7(c)(i)

[illegible]

## **SOURCE INFORMATION**

**Question 1(b)**

**Source: adapted from © Manfred Ruckszio/Shutterstock**

**Question 6**

**Source: adapted from sciencepics/shutterstock**