

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 | | | | | |
| 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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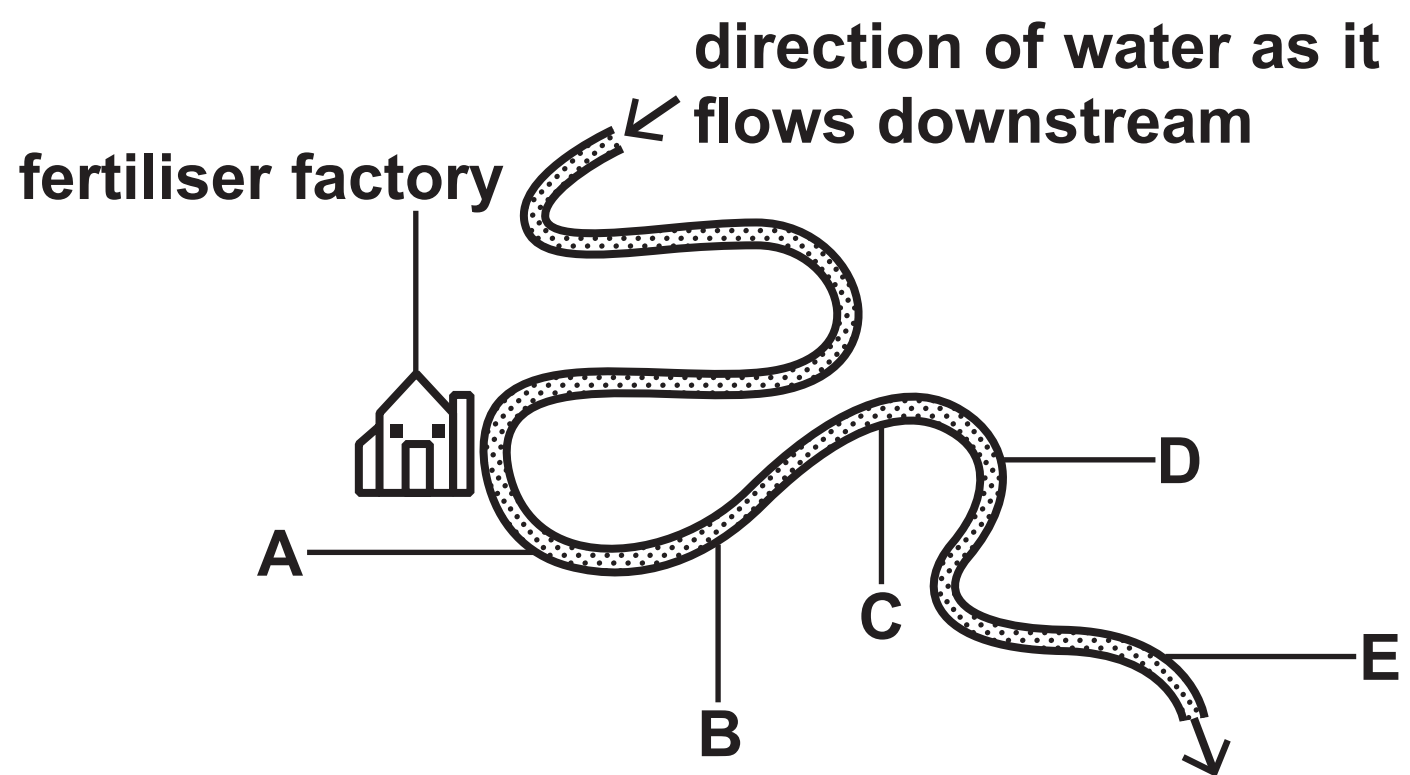
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Question 1(a)

FIGURE 1

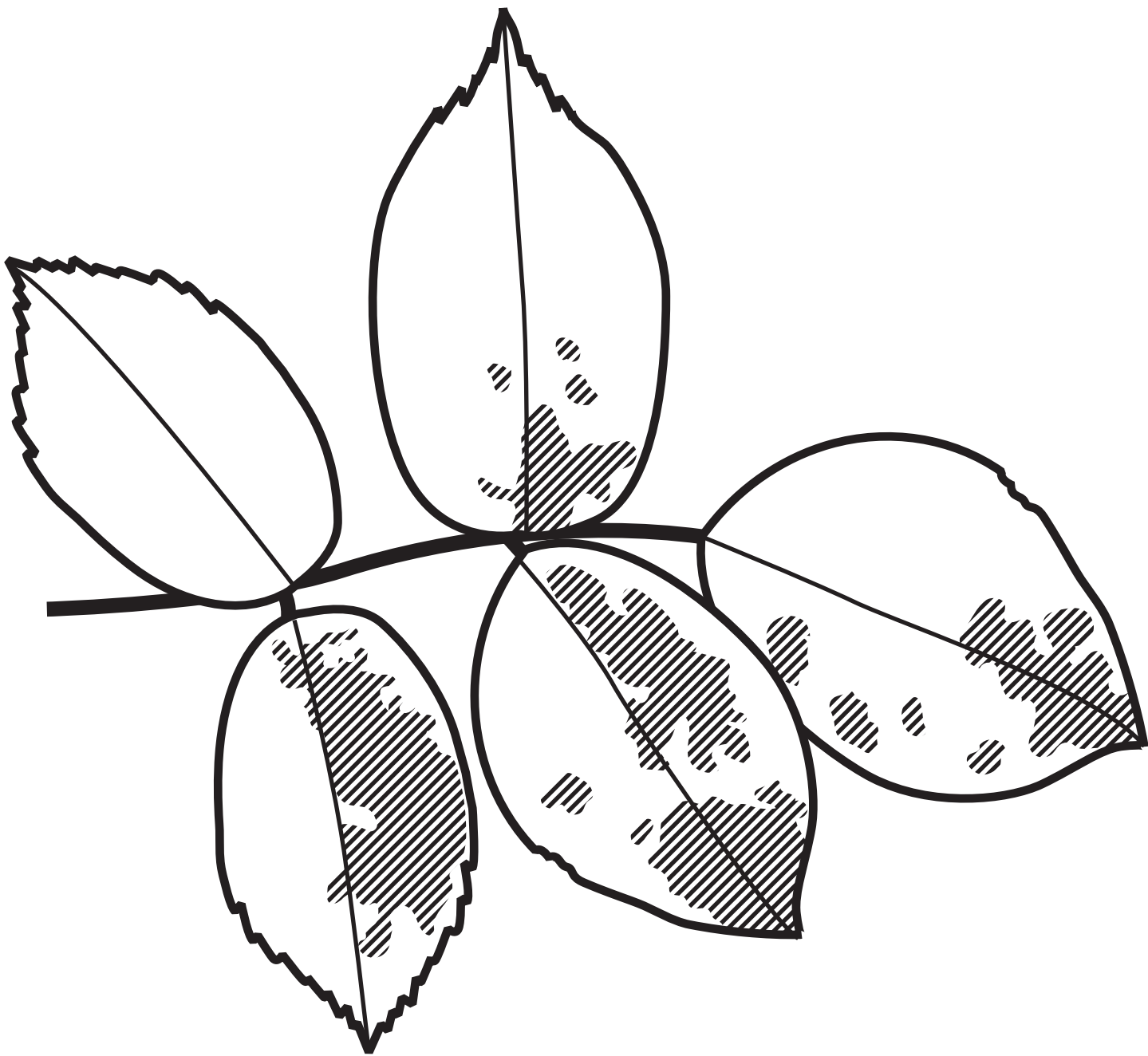


(continued on the next page)

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 dm³

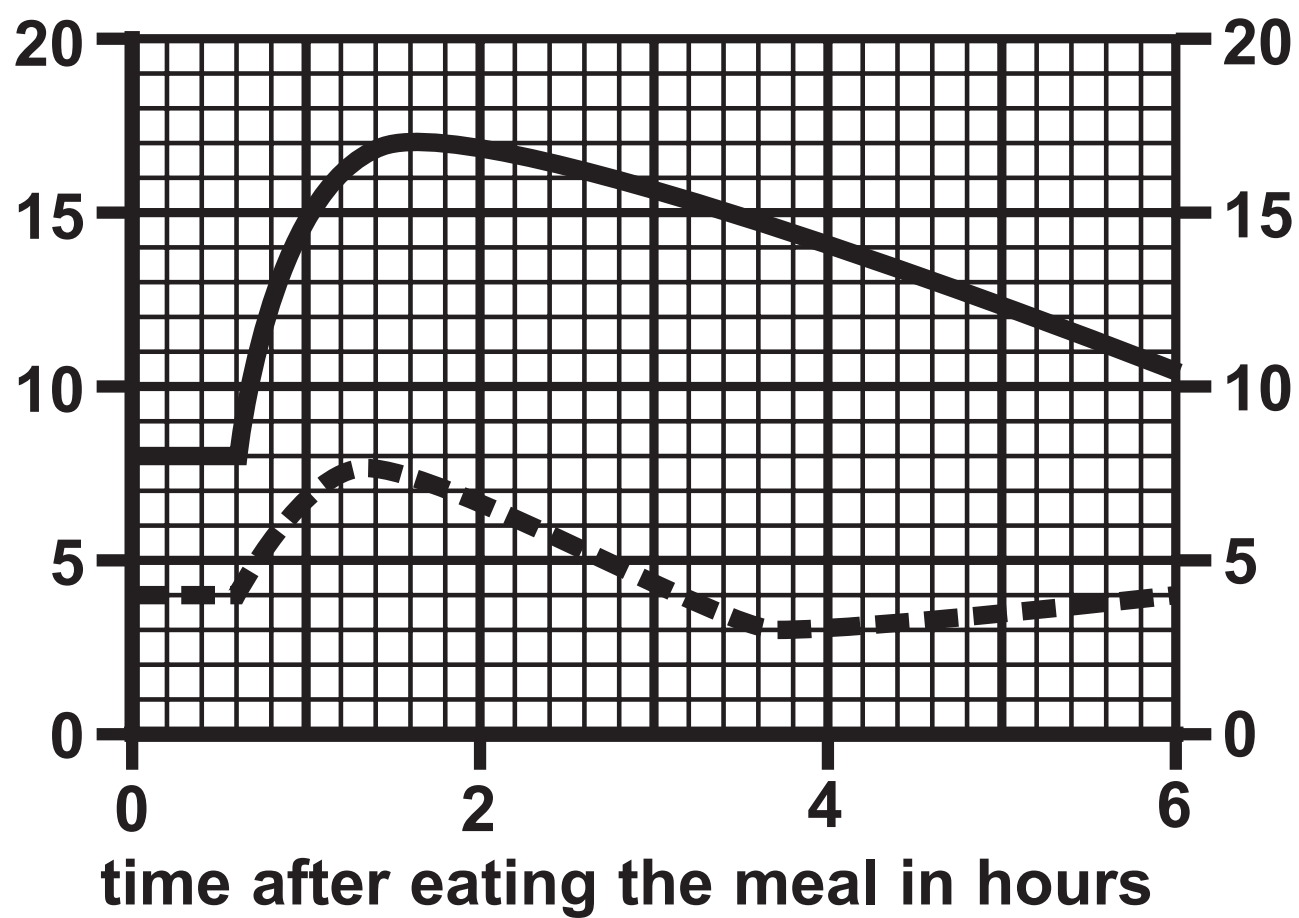
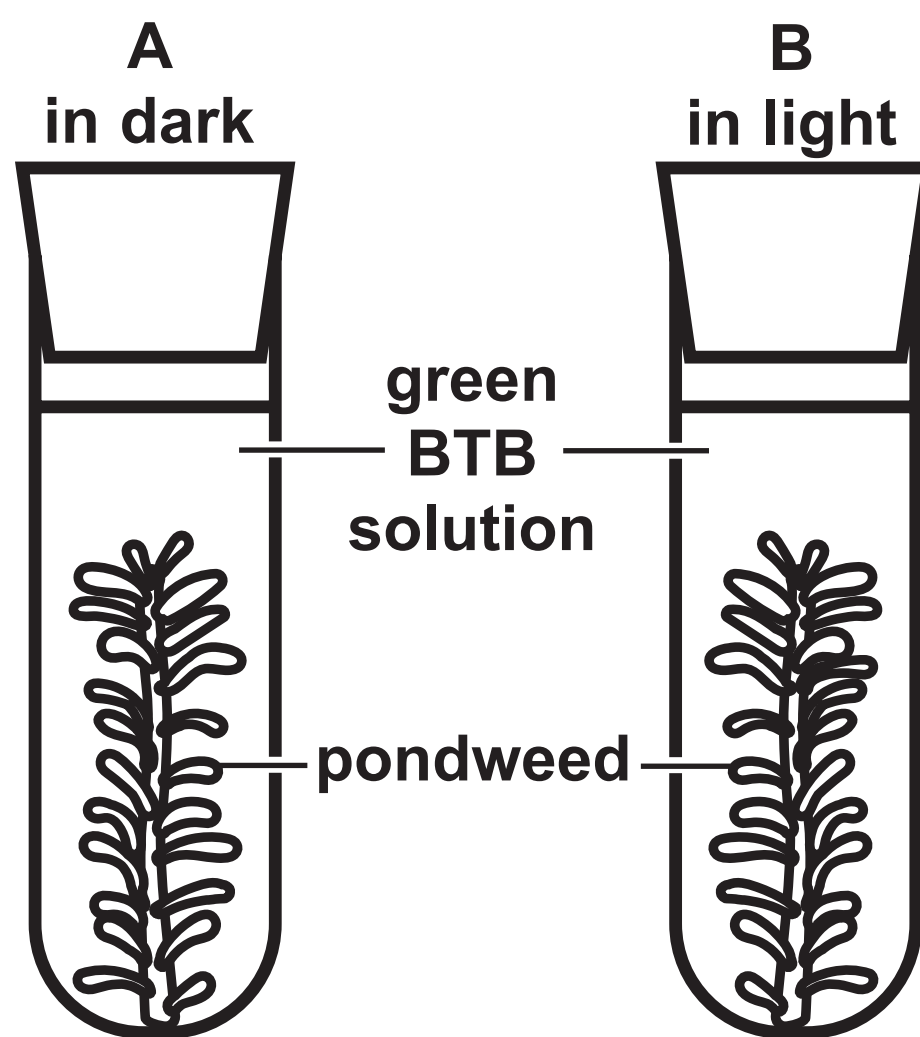


FIGURE 5

| 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

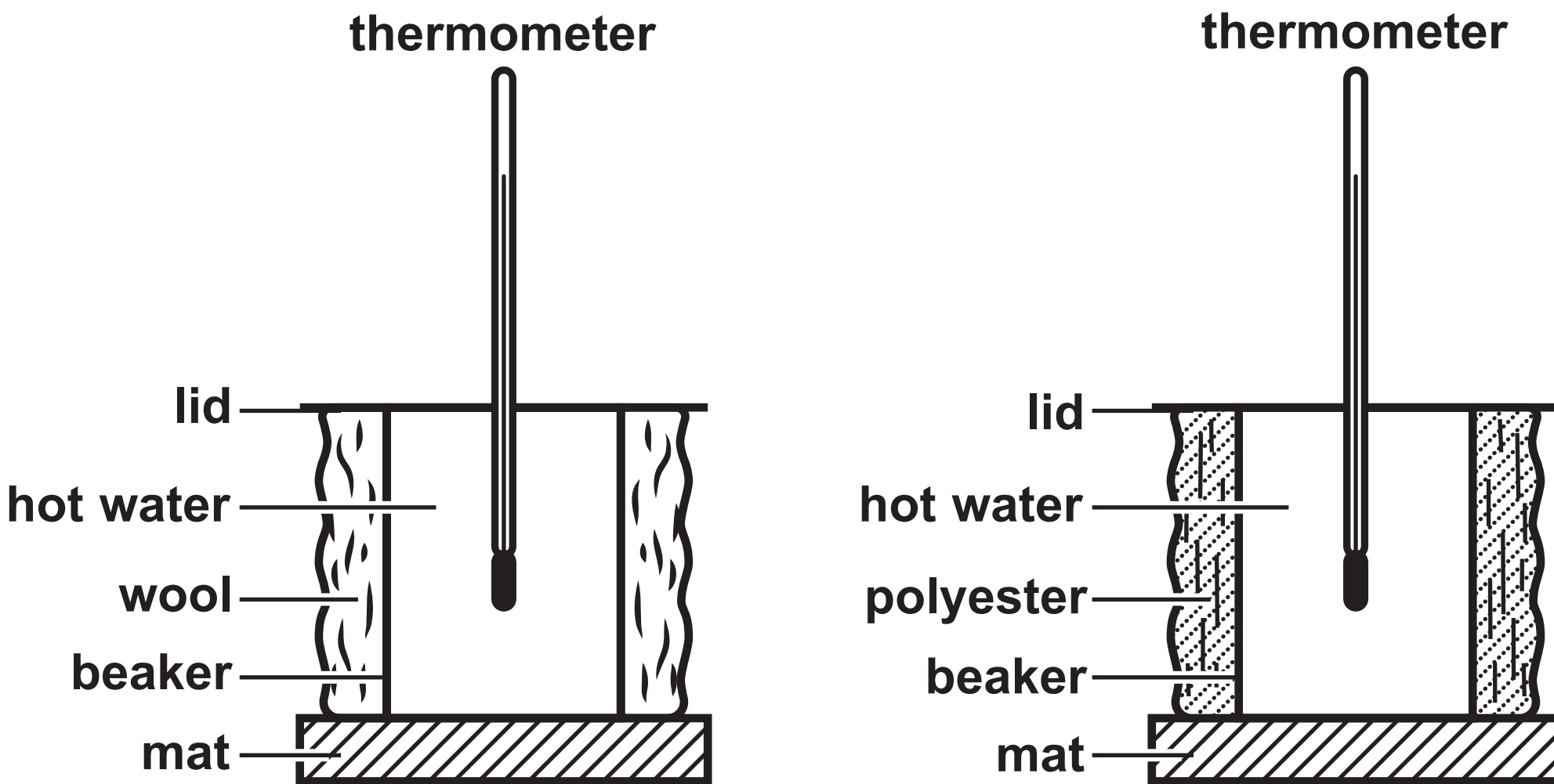


FIGURE 9

| 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

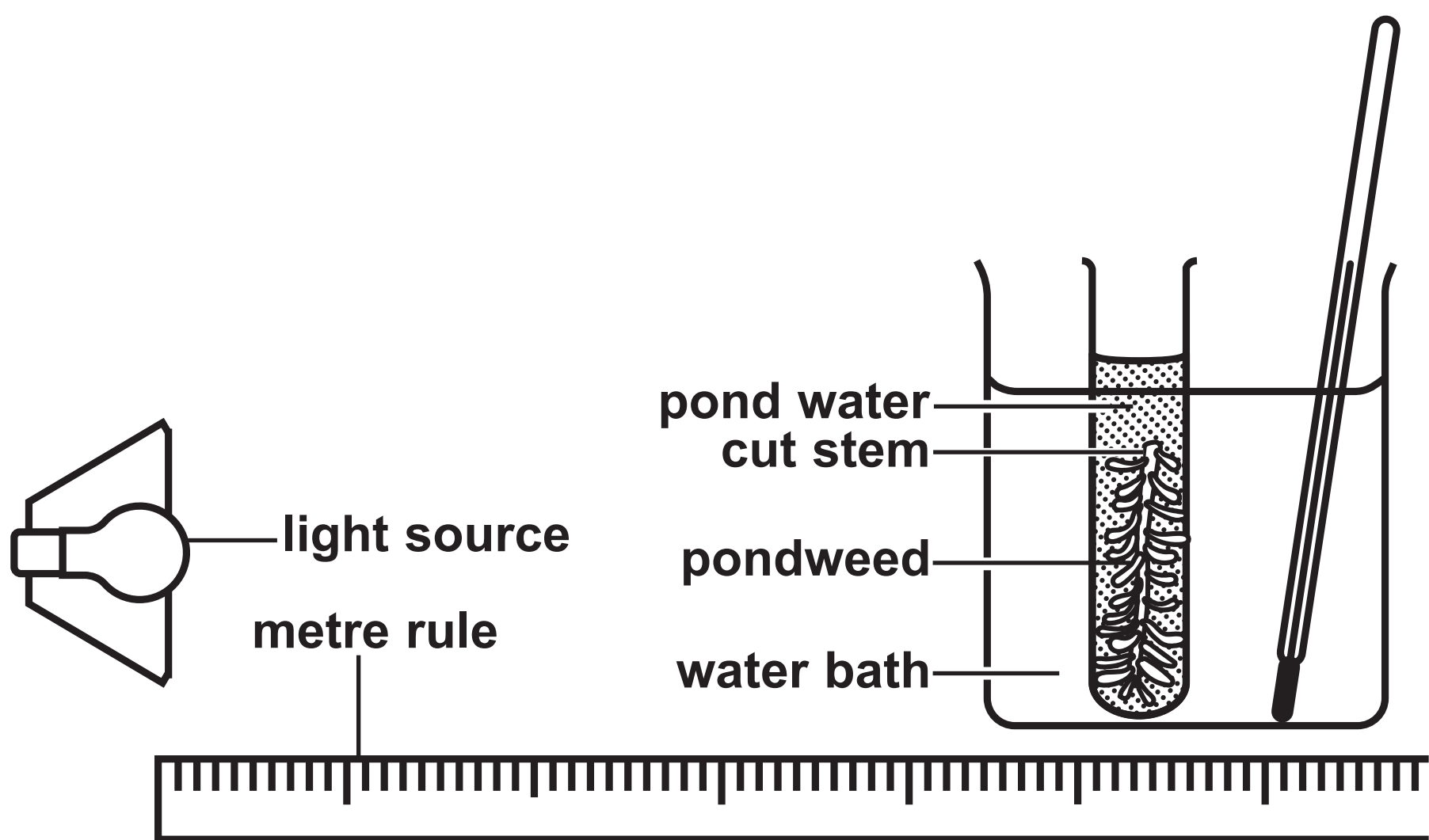
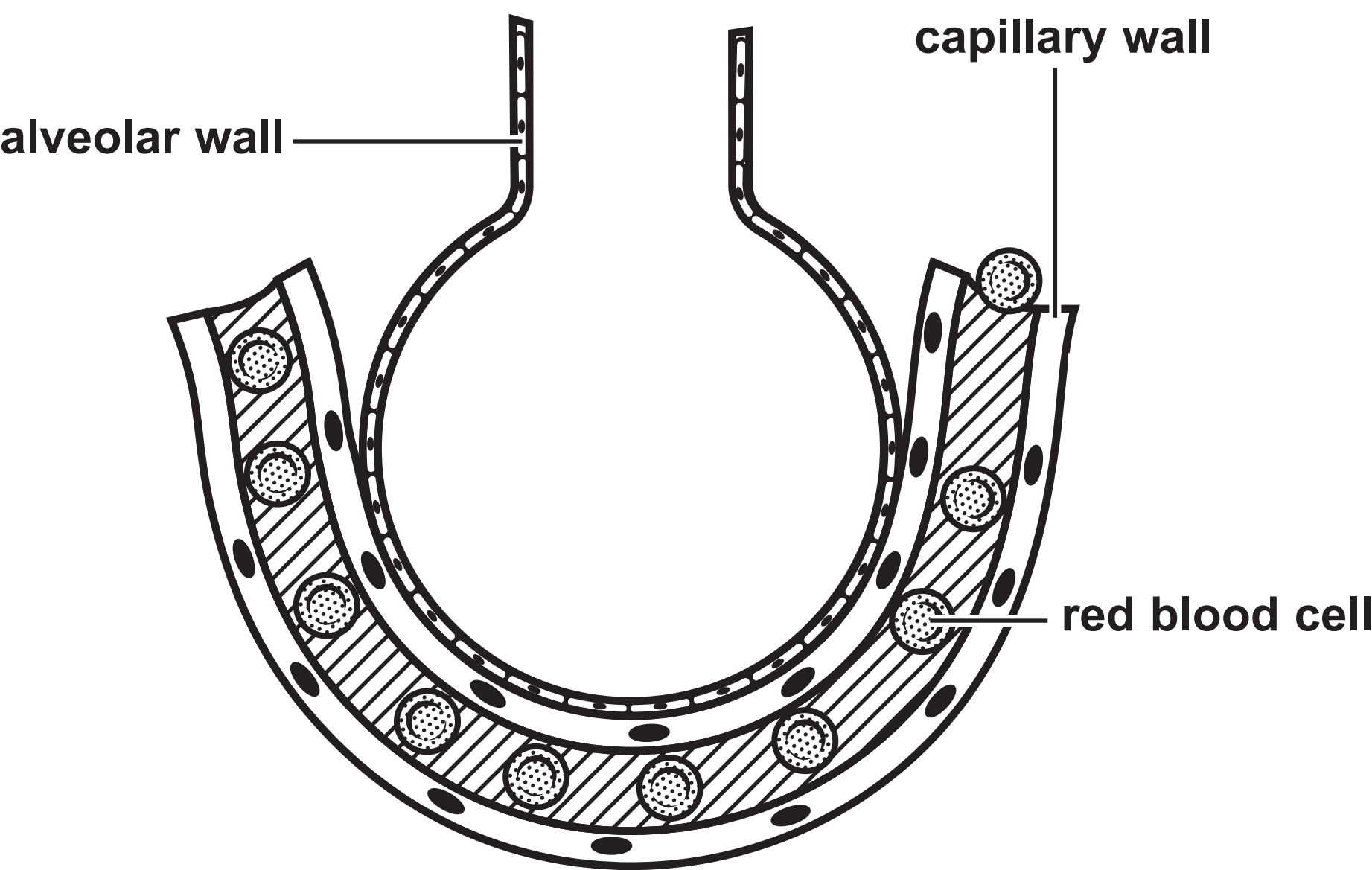


FIGURE 11

| 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 | ? |

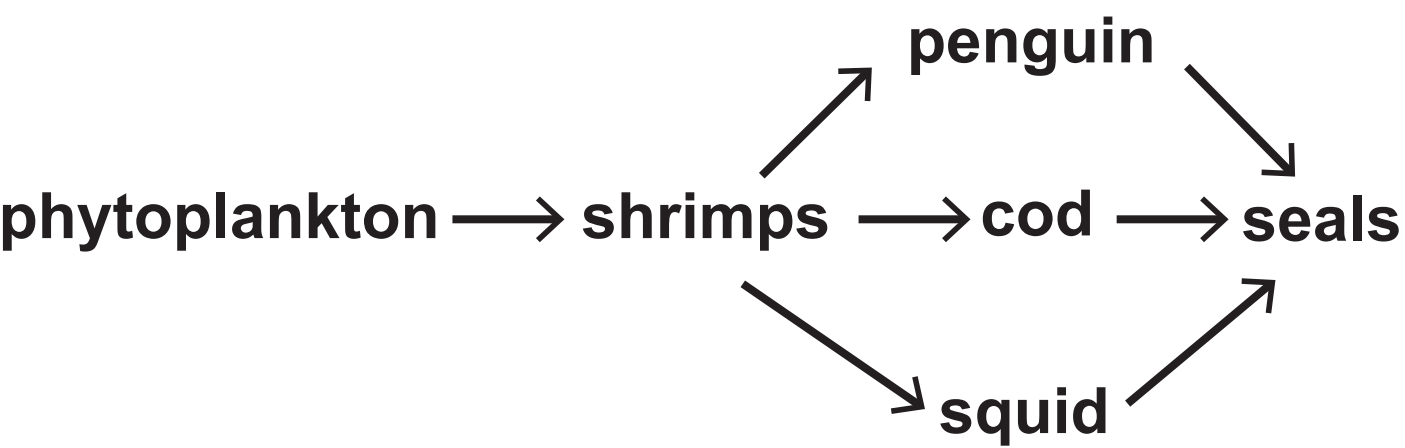
Question 6(a)

FIGURE 12



Question 7

FIGURE 13



Question 7(c)

FIGURE 14

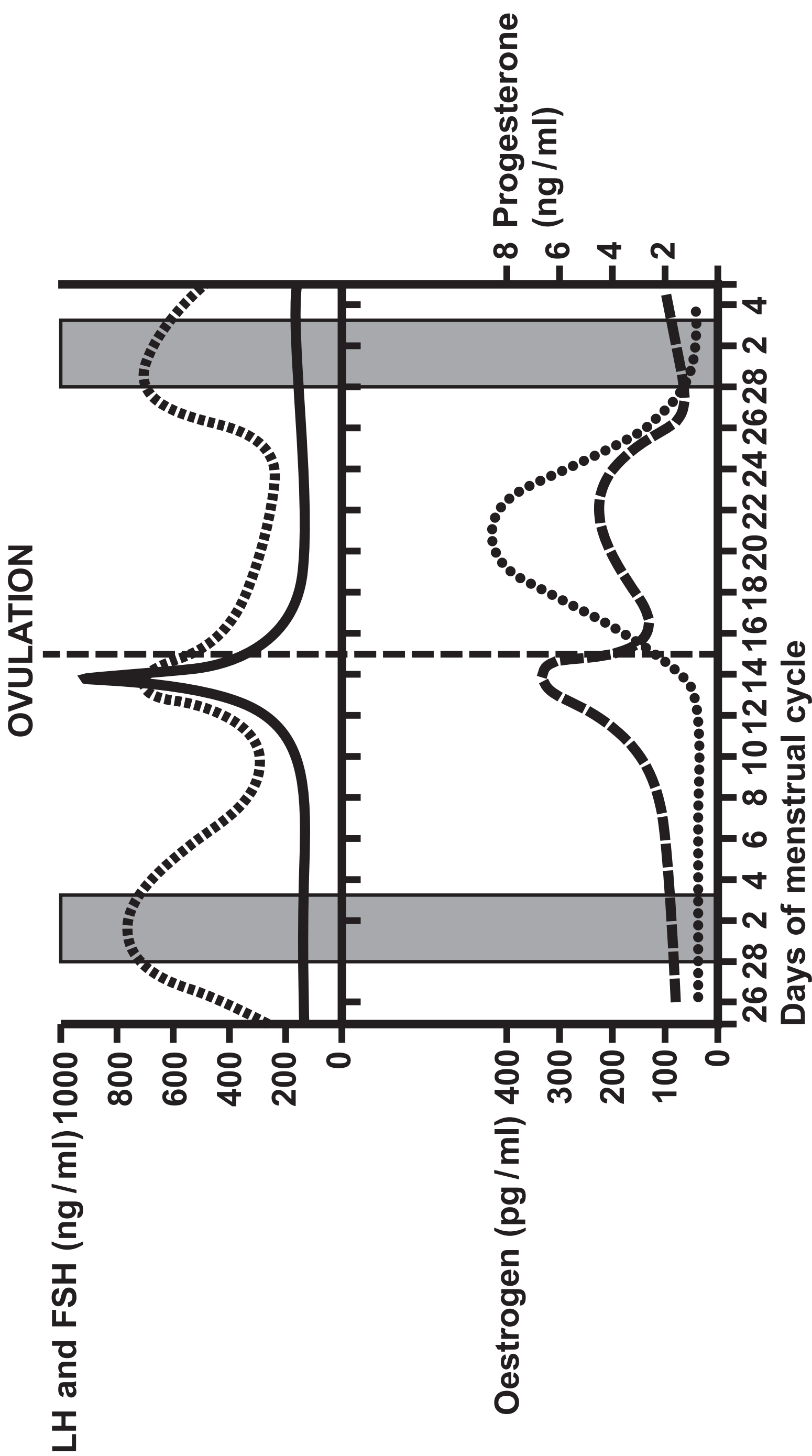
| organism | biomass in tonnes |
|---------------|-------------------|
| phytoplankton | 200 |
| shrimps | 40 |
| cod | 10 |
| seals | 0.5 |

Question 7(c)(i)

[illegible]

FIGURE 15

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



Question 9(a)

FIGURE 16

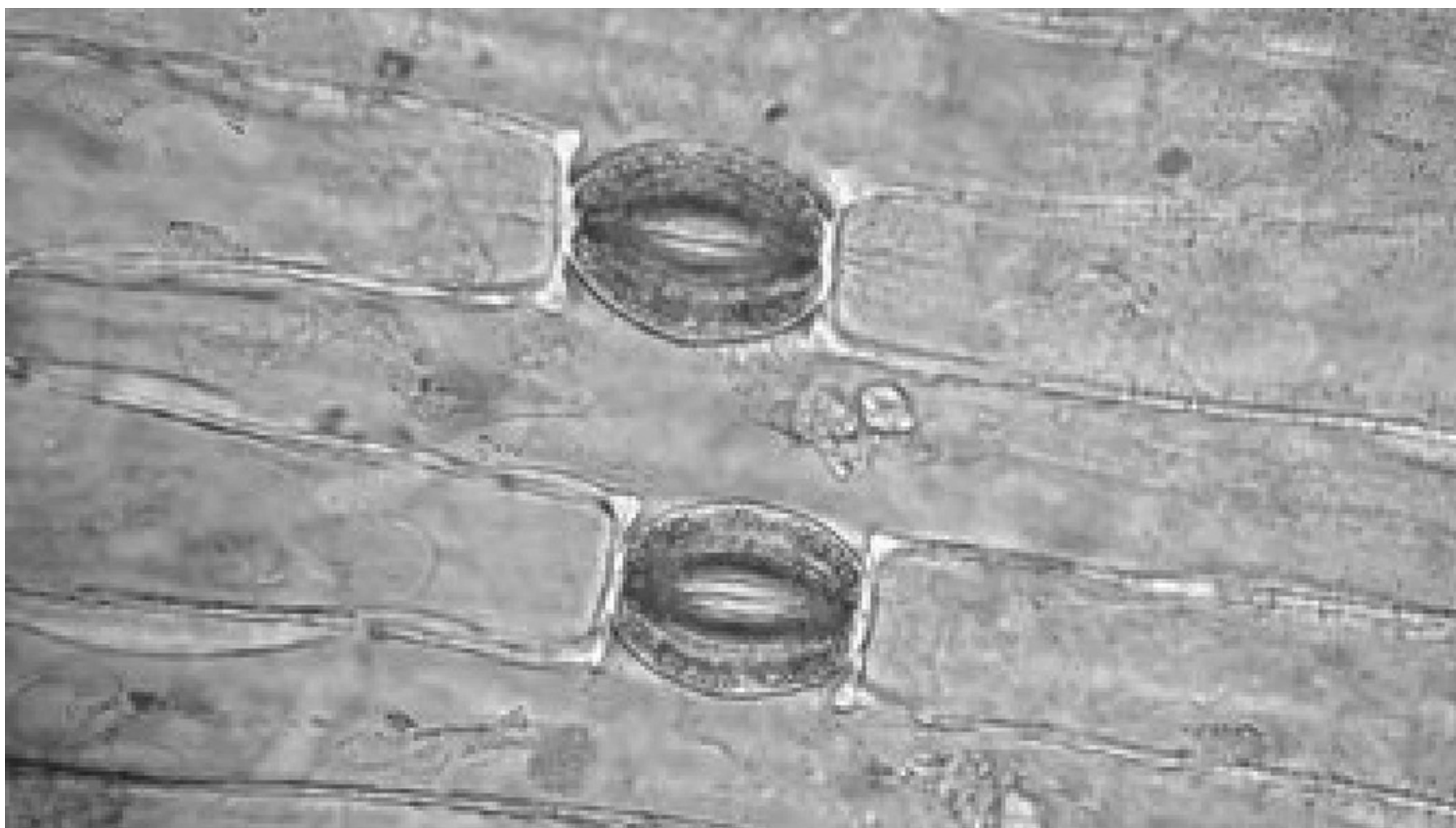
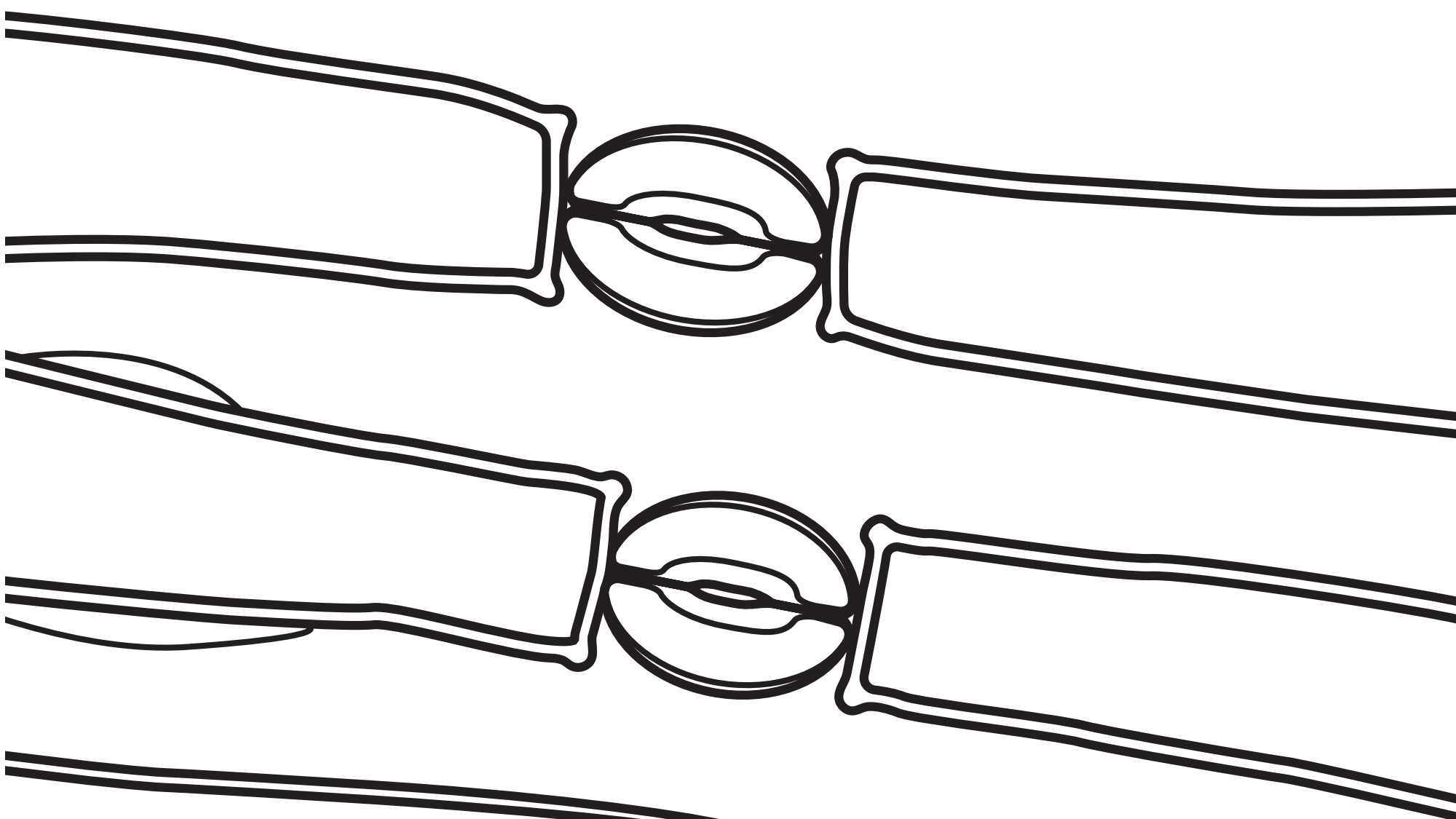


FIGURE 16 2D drawing



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