

Biology  
UNIT: 4BI1  
Science (Double Award) 4BI1/4SD0  
PAPER: 1B

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.

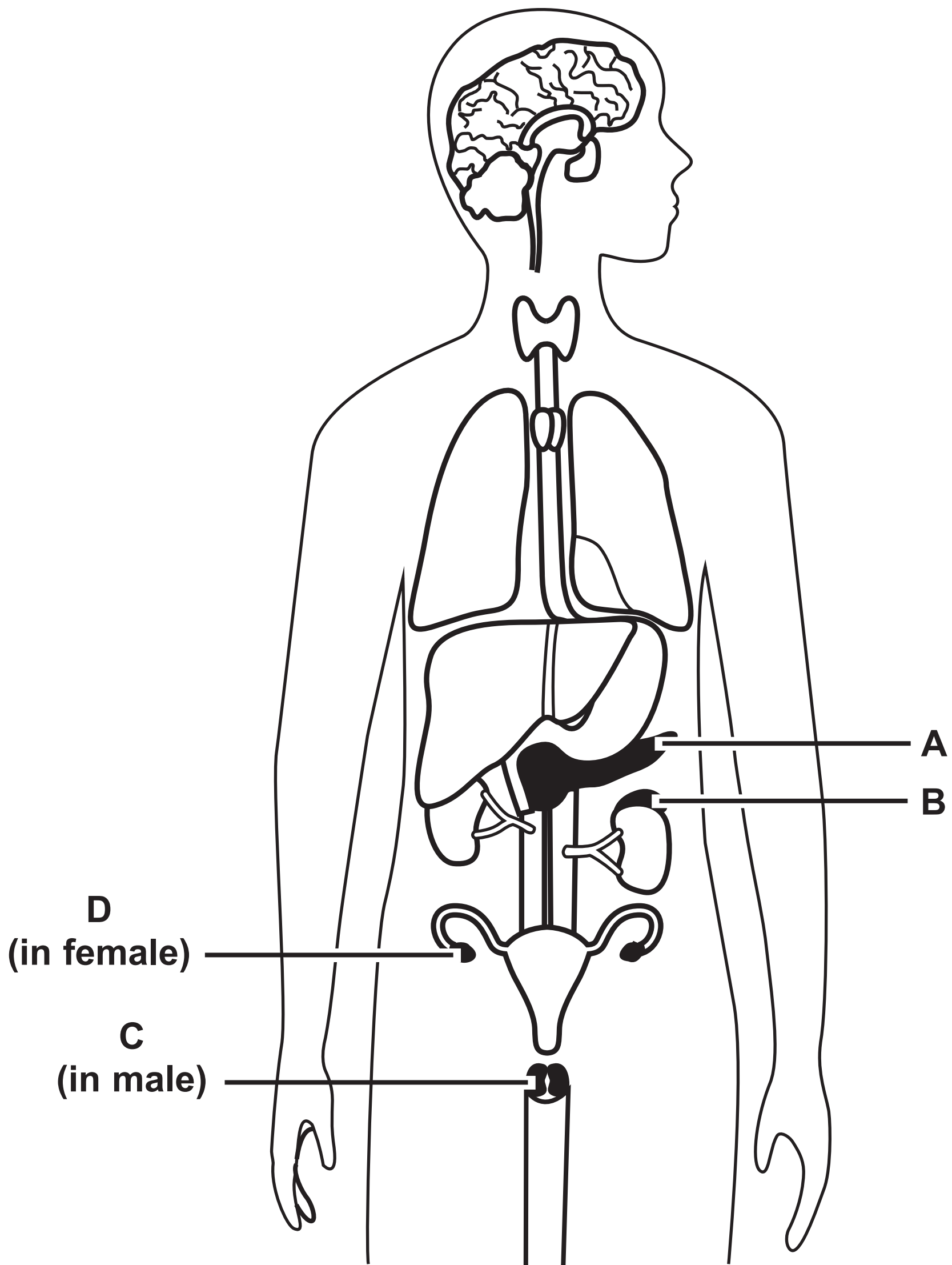
**THIS DIAGRAM BOOKLET MUST BE RETURNED WITH THE QUESTION PAPER AT THE END OF THE EXAMINATION.**

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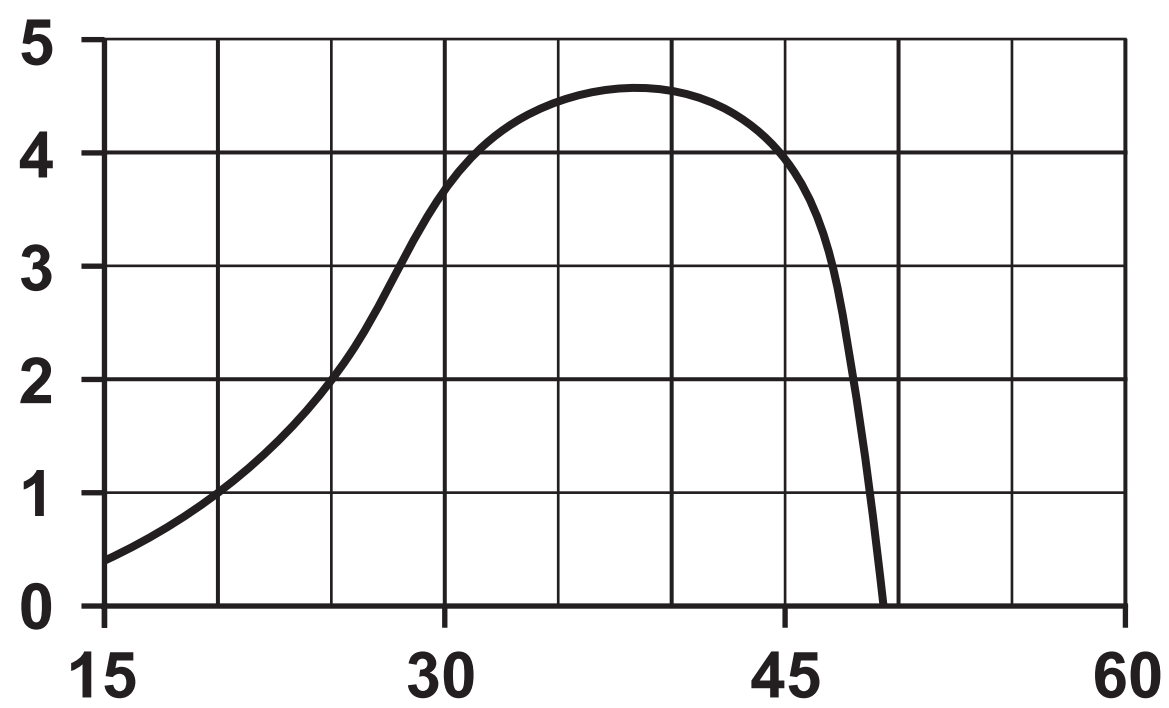
4	Question 1(a)
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## Question 1(a)



## Question 2(b)

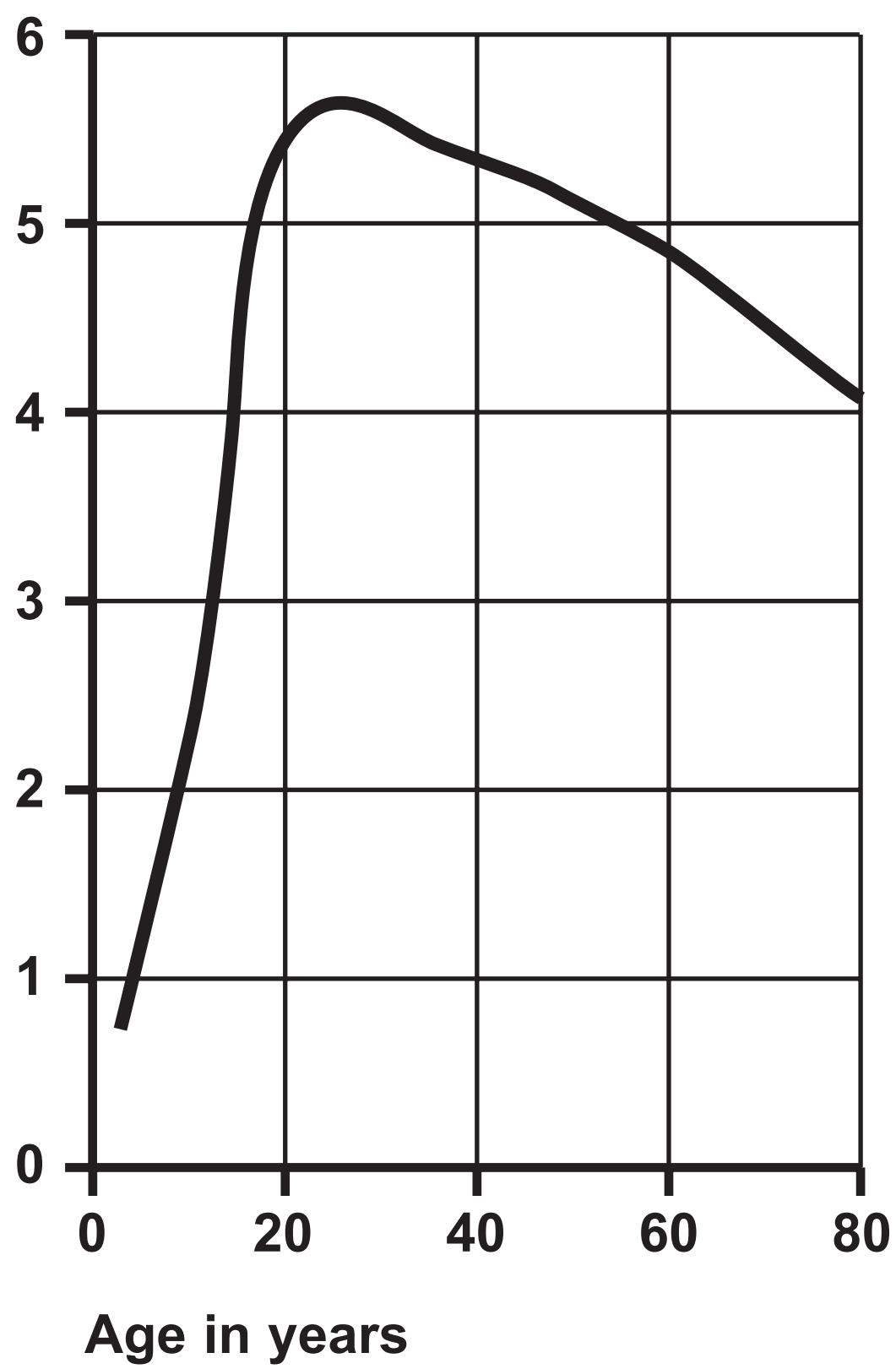
Rate of gas  
produced in  $\text{cm}^3$   
per minute



Temperature in °C

## Question 3(a)

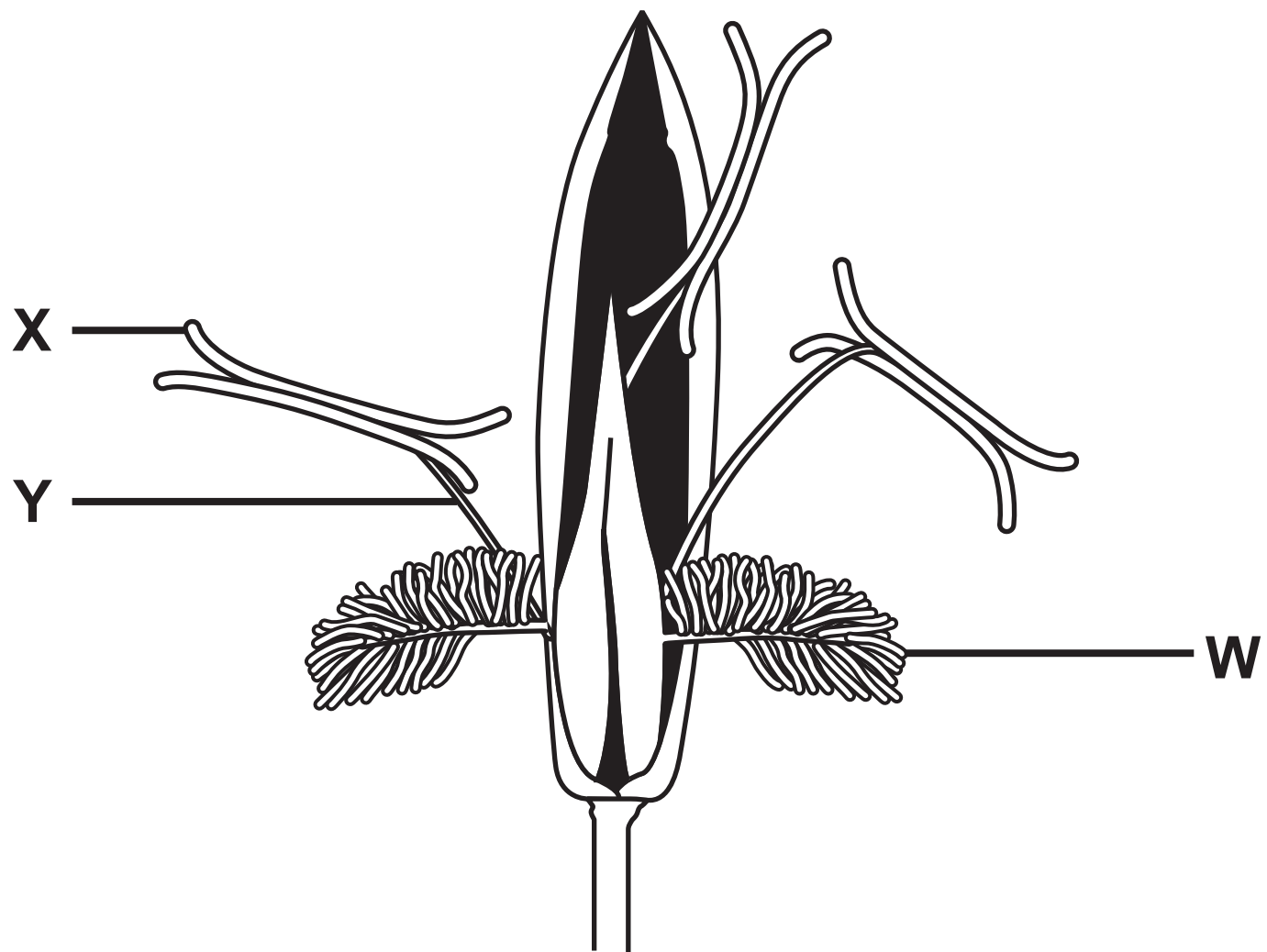
Median vital  
capacity  
in litres



## Question 4

<b>Trophic level</b>	<b>Mean number of organisms</b>	<b>Mean dry mass in g</b>
<b>producer</b>	<b>592</b>	<b>821·0</b>
<b>primary consumer</b>	<b>68</b>	<b>37·0</b>
<b>secondary consumer</b>	<b>35</b>	<b>10·60</b>
<b>tertiary consumer</b>	<b>3</b>	<b>2·40</b>

## Question 5

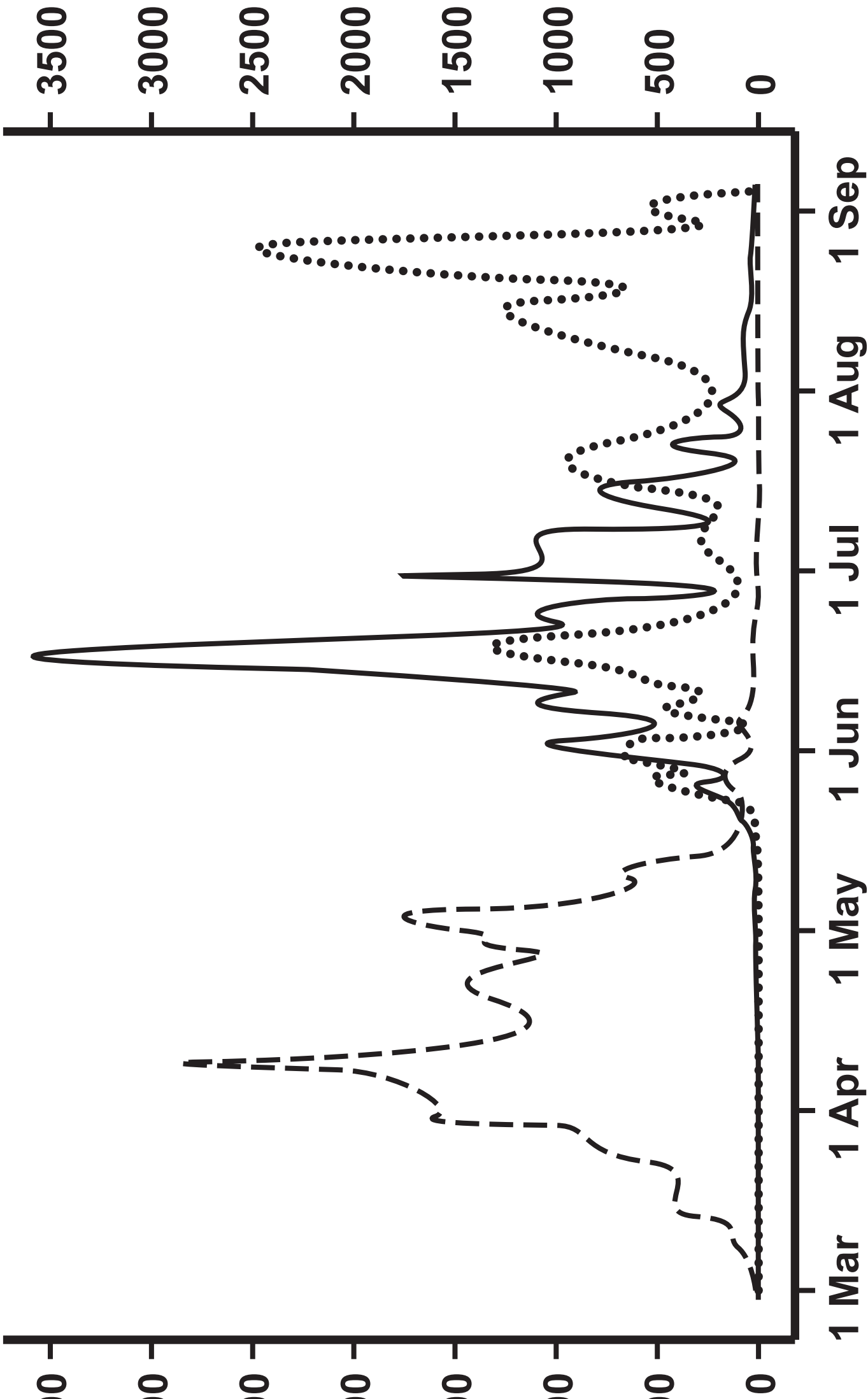




Question 5(b)

- tree
- ..... weed
- grass

Total pollen count

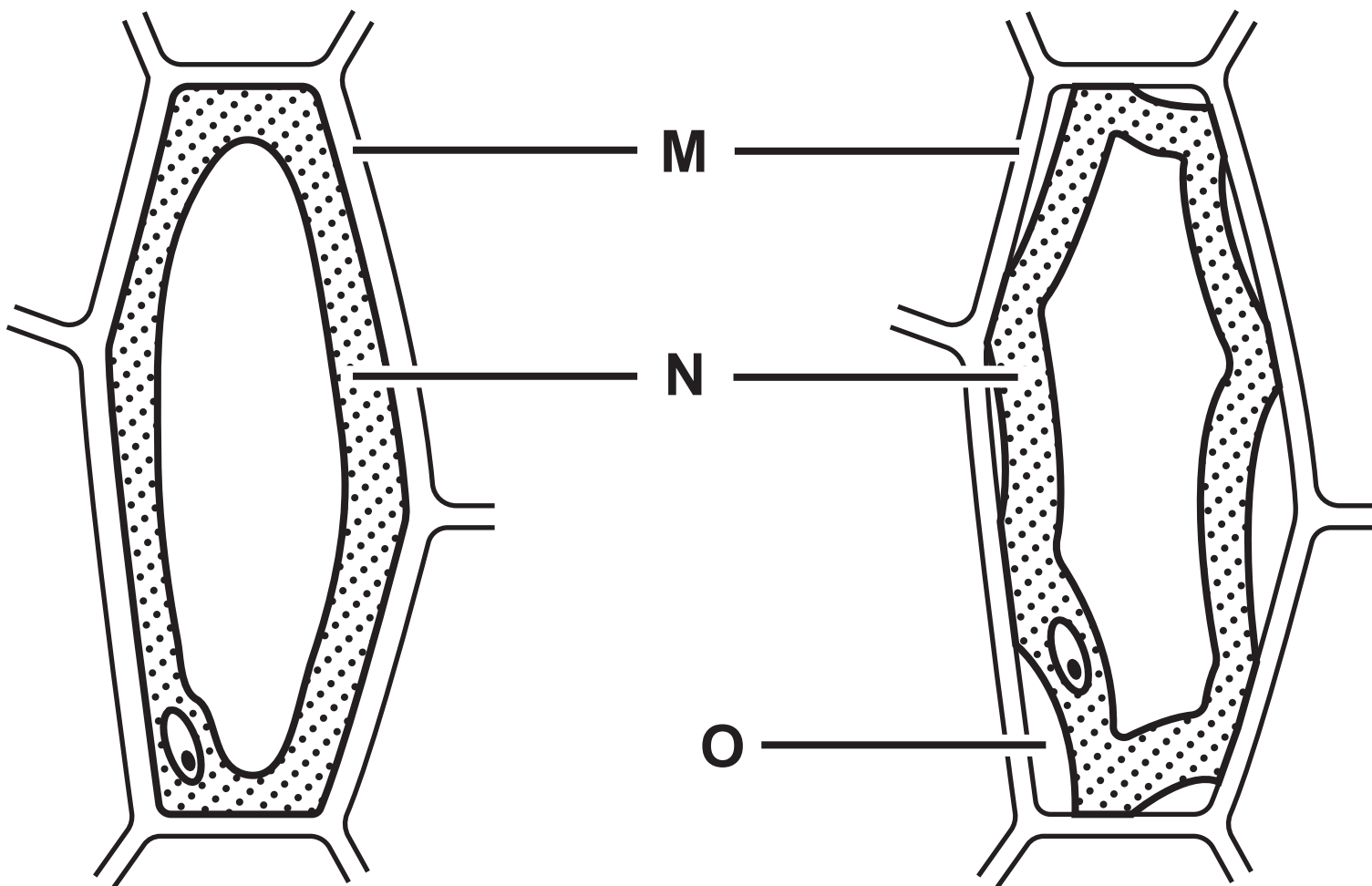


Question 5(b)

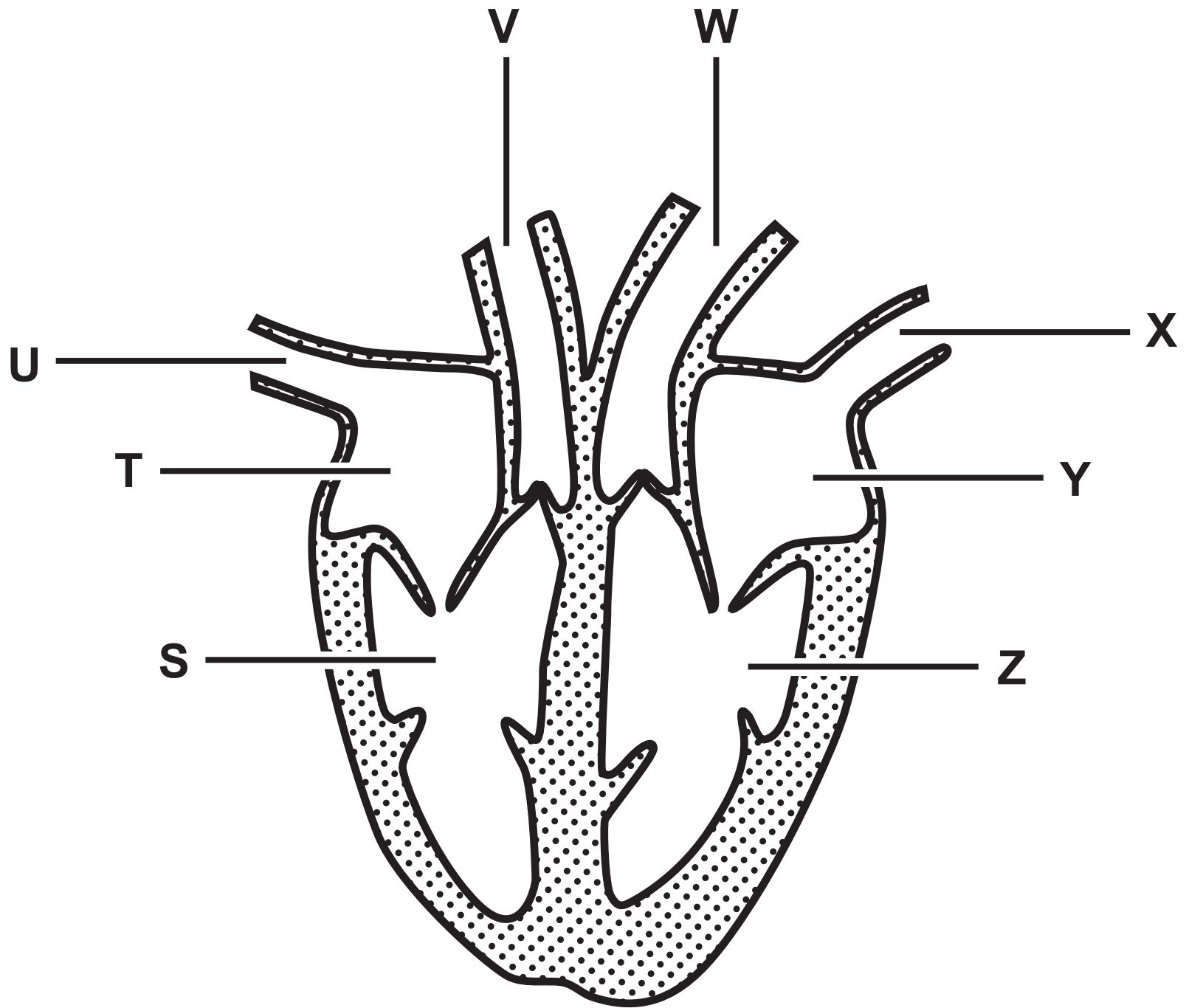
Person	Months with severe symptoms	Months with mild symptoms	Months with no symptoms
A	April and May	March and June	July to September
B	June and July	March to May August	none
C	April to September	March	none
D	none	none	all
E	June to September	March to May	none

## Question 6

Cell in distilled water

Cell in concentrated  
solution of  
sodium chloride

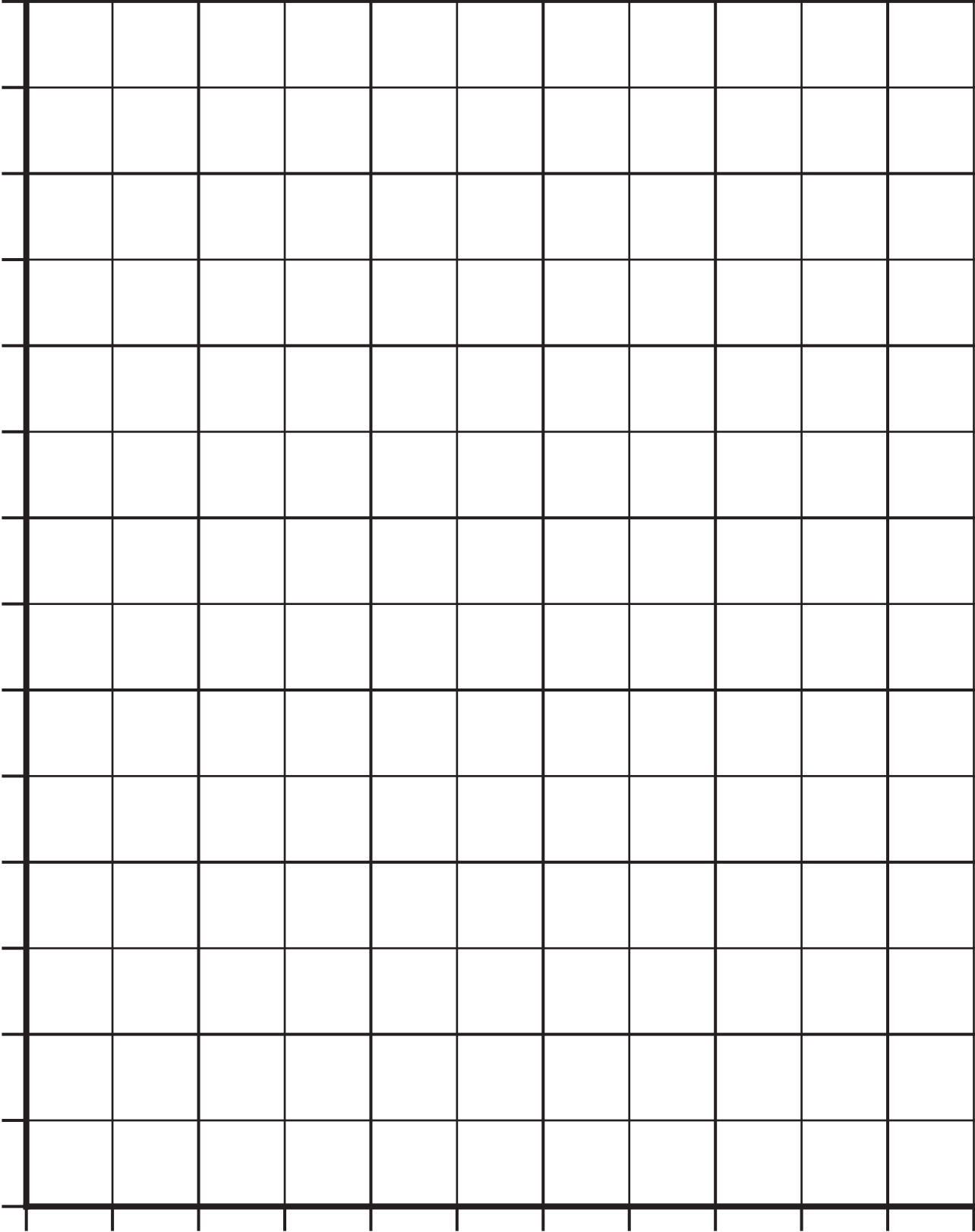
## Question 7(a)



Question 7(c)

Age in years	Calculated rate of heart attacks in arbitrary units		
	normal mass	overweight	obese
under 40	3·7	6·4	12·1
40 to 60	18·6	21·4	27·0
over 60	36·1	36·4	17·3
all ages	11·3	16·3	20·2

Question 9(b)(i)



Question 9(b)(i)

