

**Paper Reference(s) 4BI1/1BR 4SD0/1BR
Pearson Edexcel International GCSE (9–1)**

Biology

UNIT: 4BI1

Science (Double Award) 4SD0

PAPER: 1BR

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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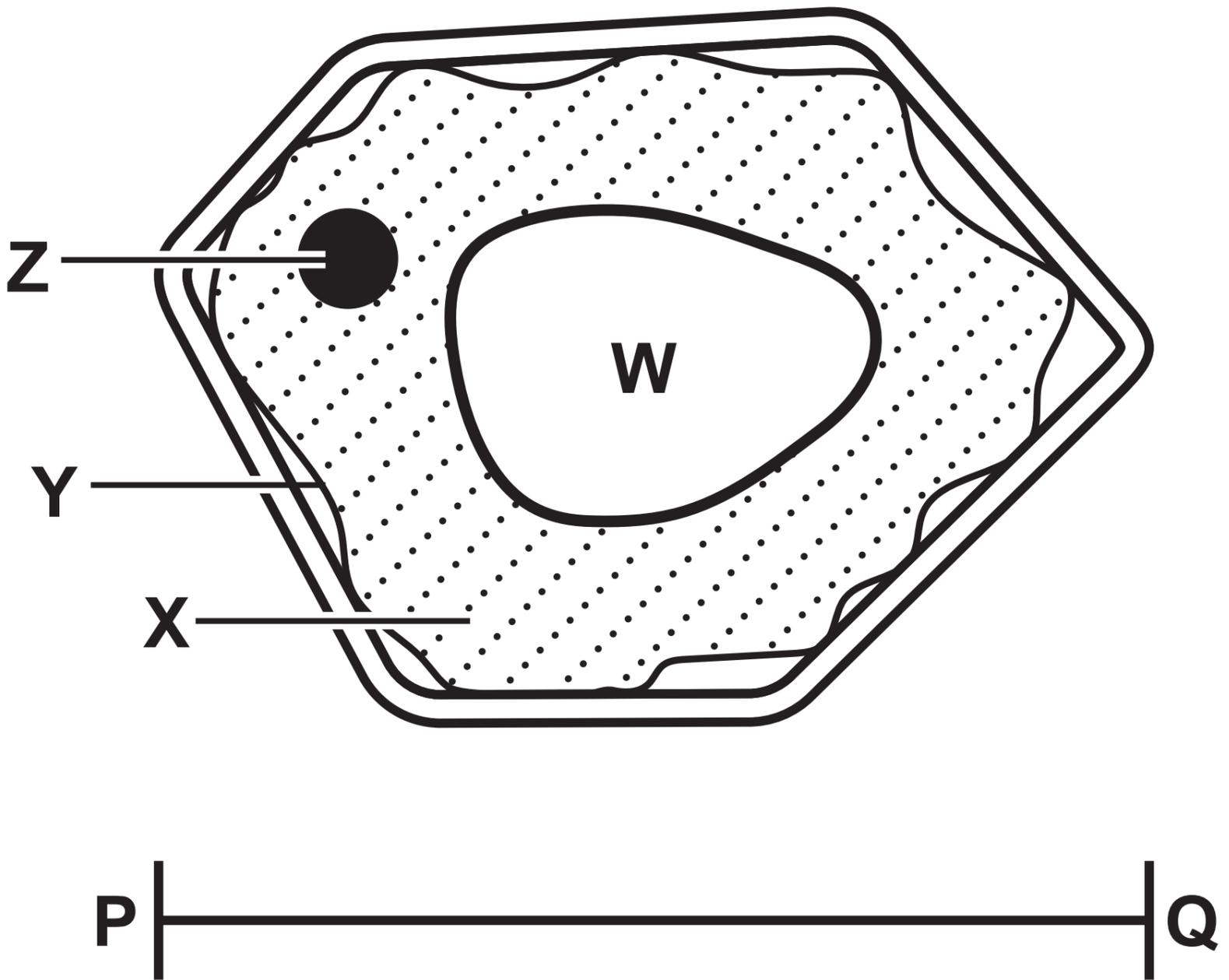
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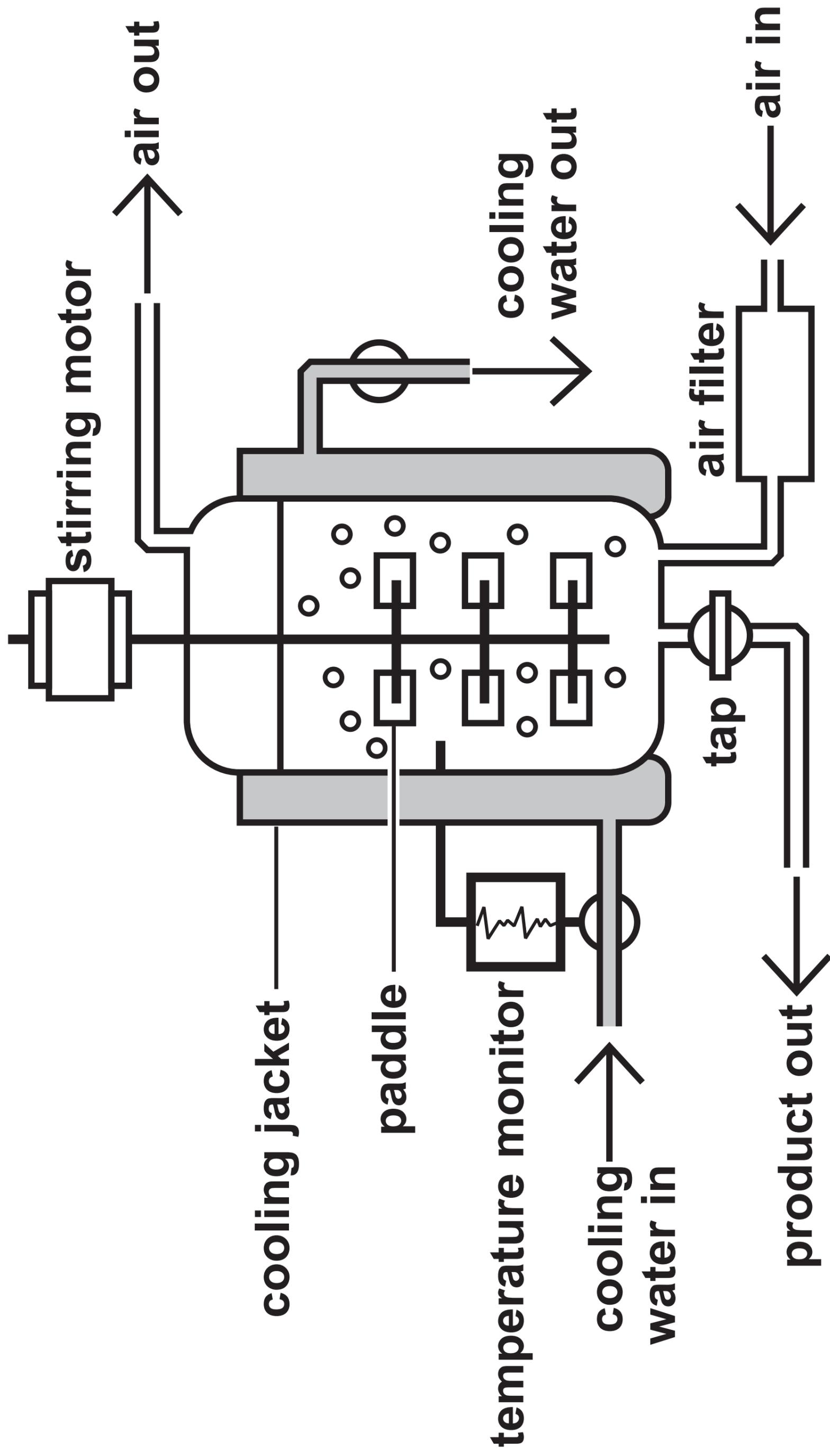
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Question 1

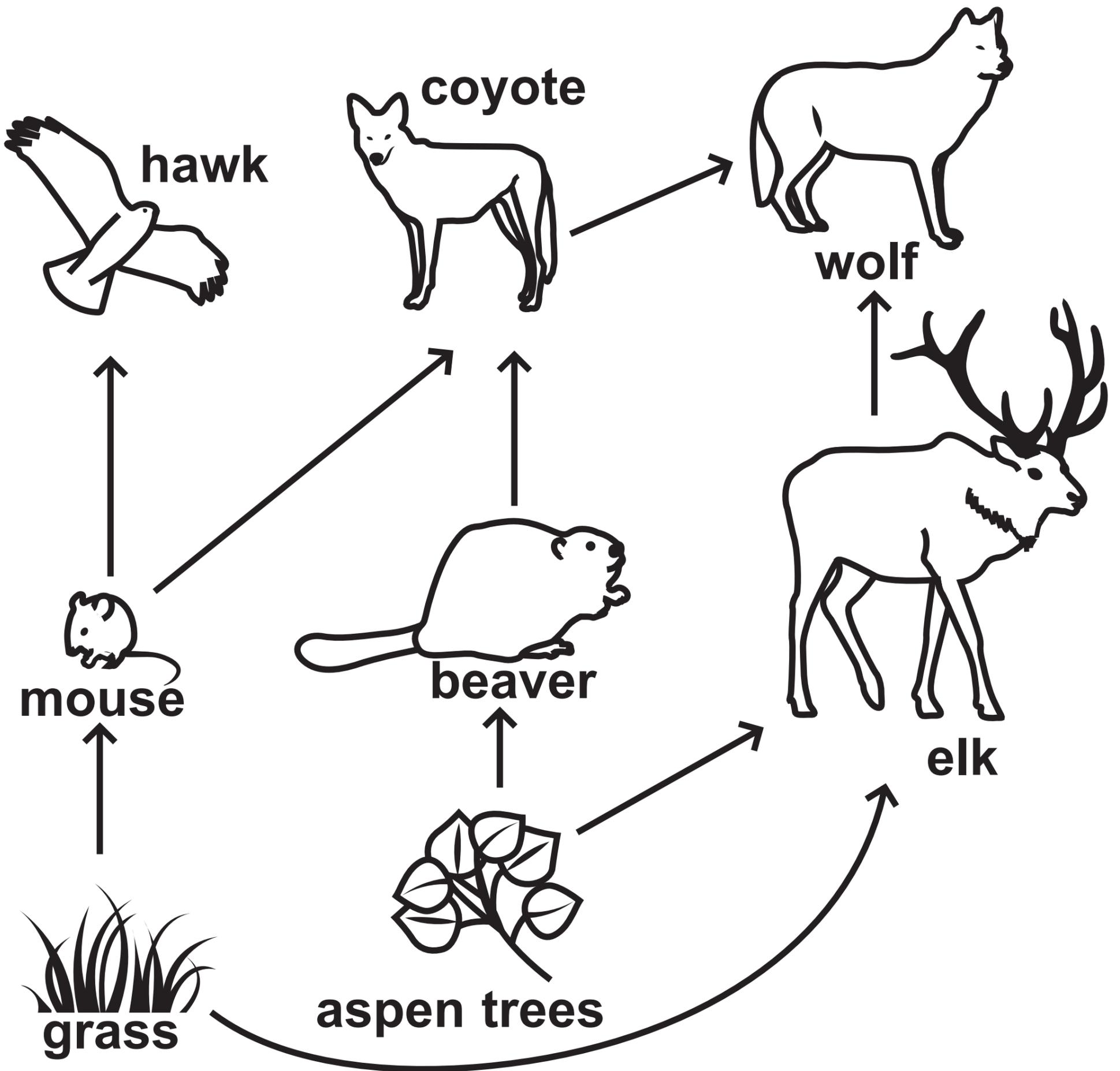


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Question 2(c)

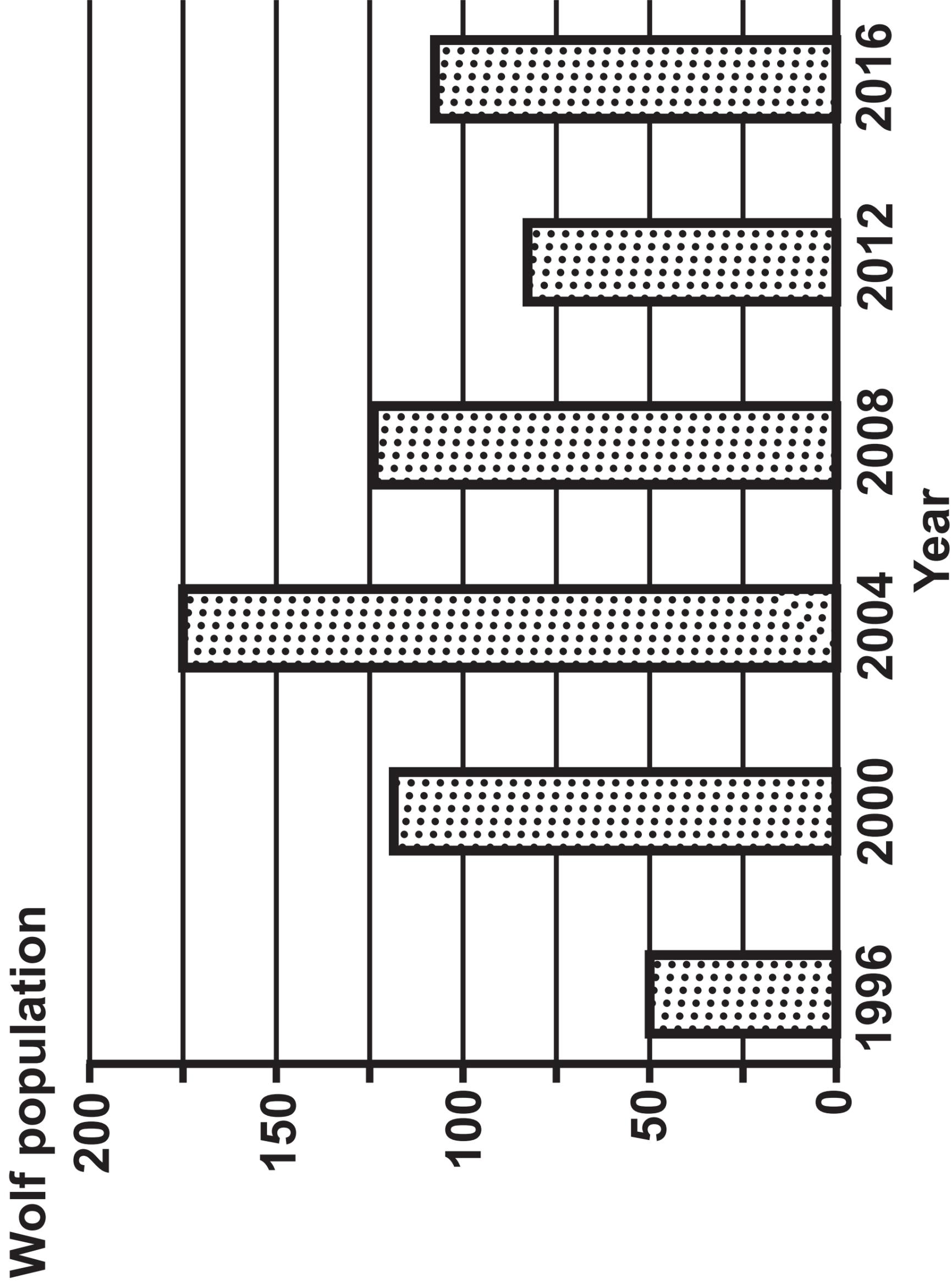


Question 3

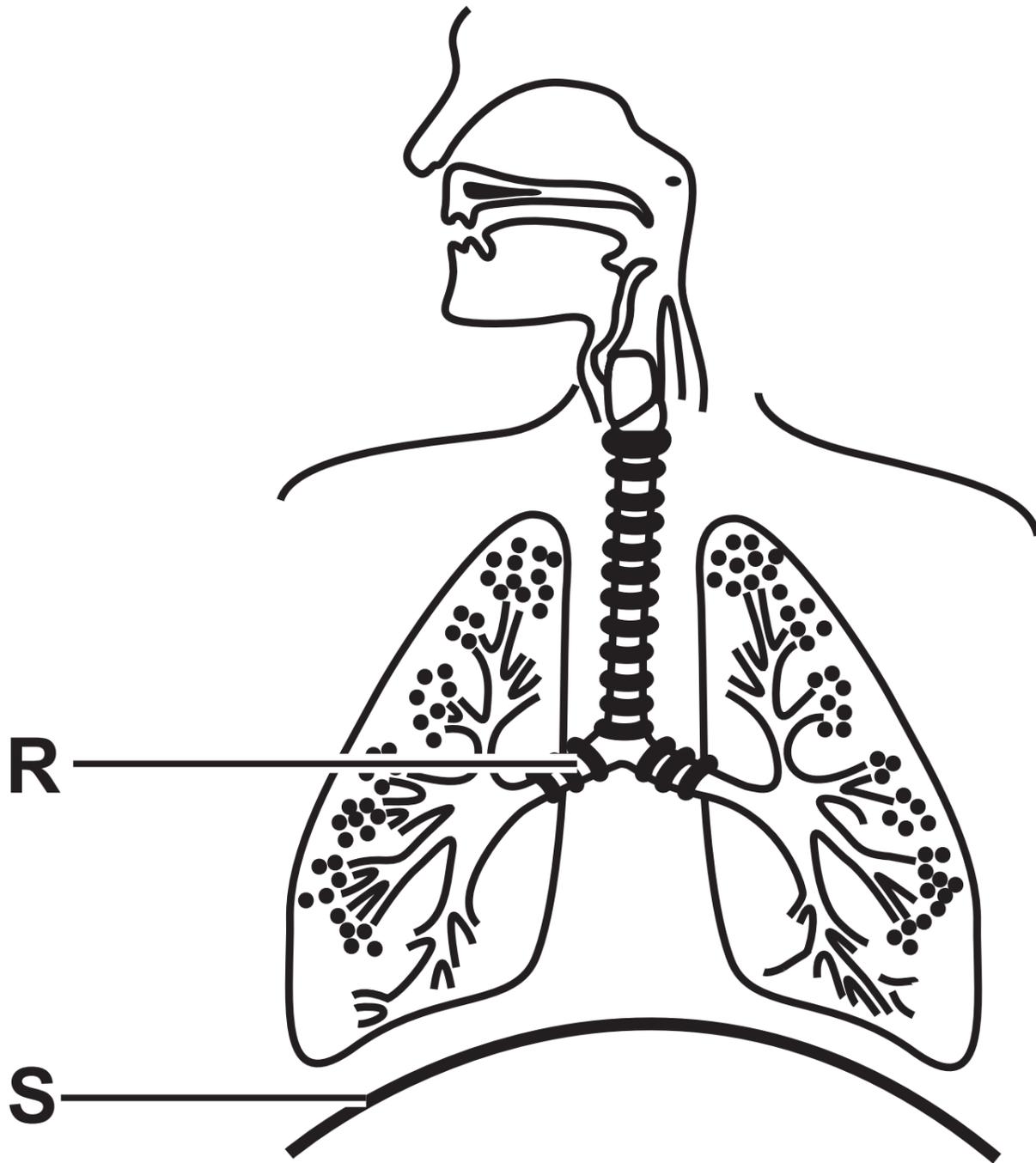


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Question 3(c)



Question 4(a)



Question 4(b)

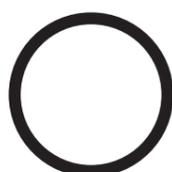
Cycling speed in km per hour	Volume of air in each breath in cm^3	Breathing rate in breaths per minute	Ventilation³ rate in dm^3 per minute
0	500	14	7
15	1500	14	21
20	2000	14	28
25	2500	16	40
30	2600	20	52
35		25	65

Question 5(b)

KEY



male with normal feathers



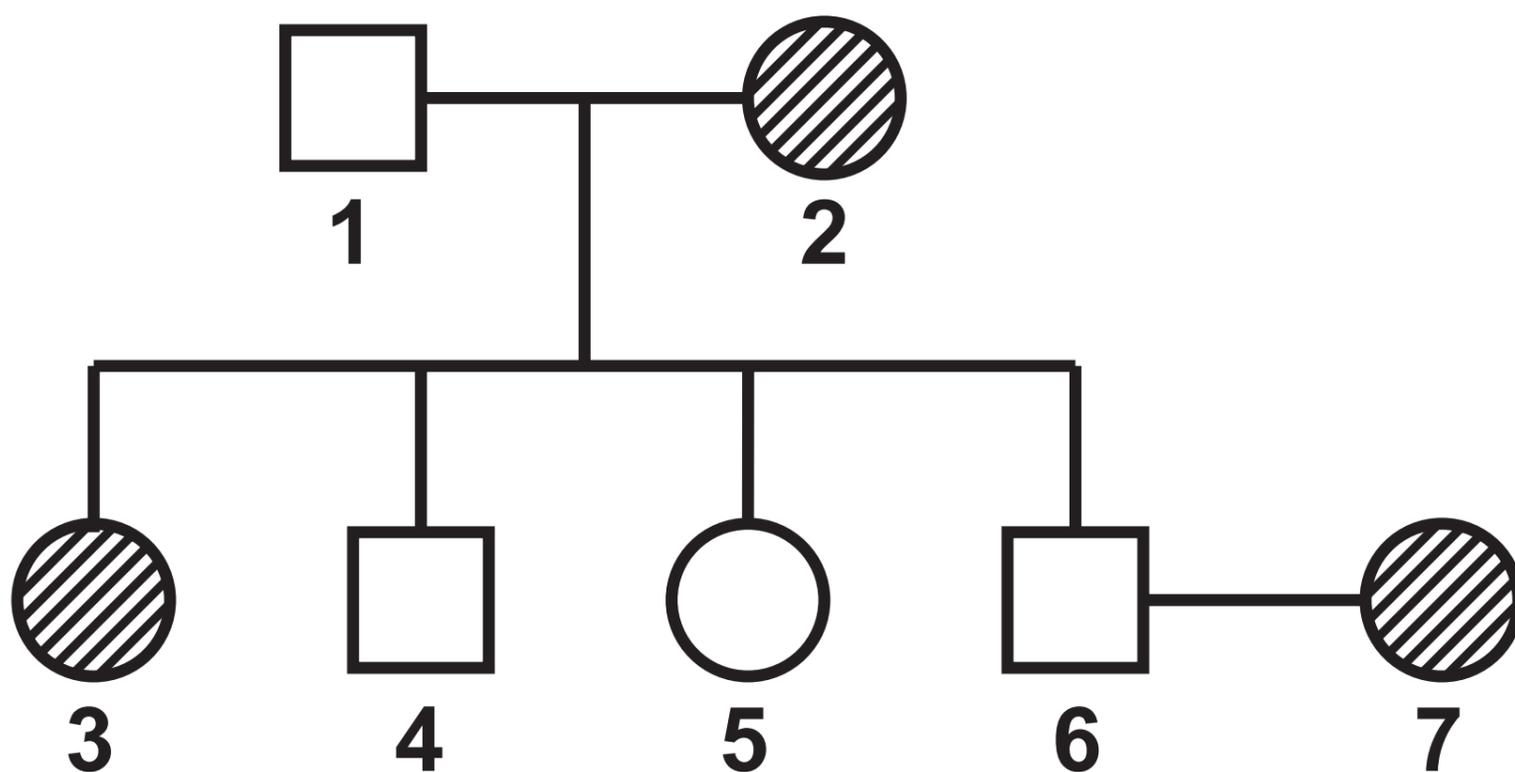
female with normal feathers



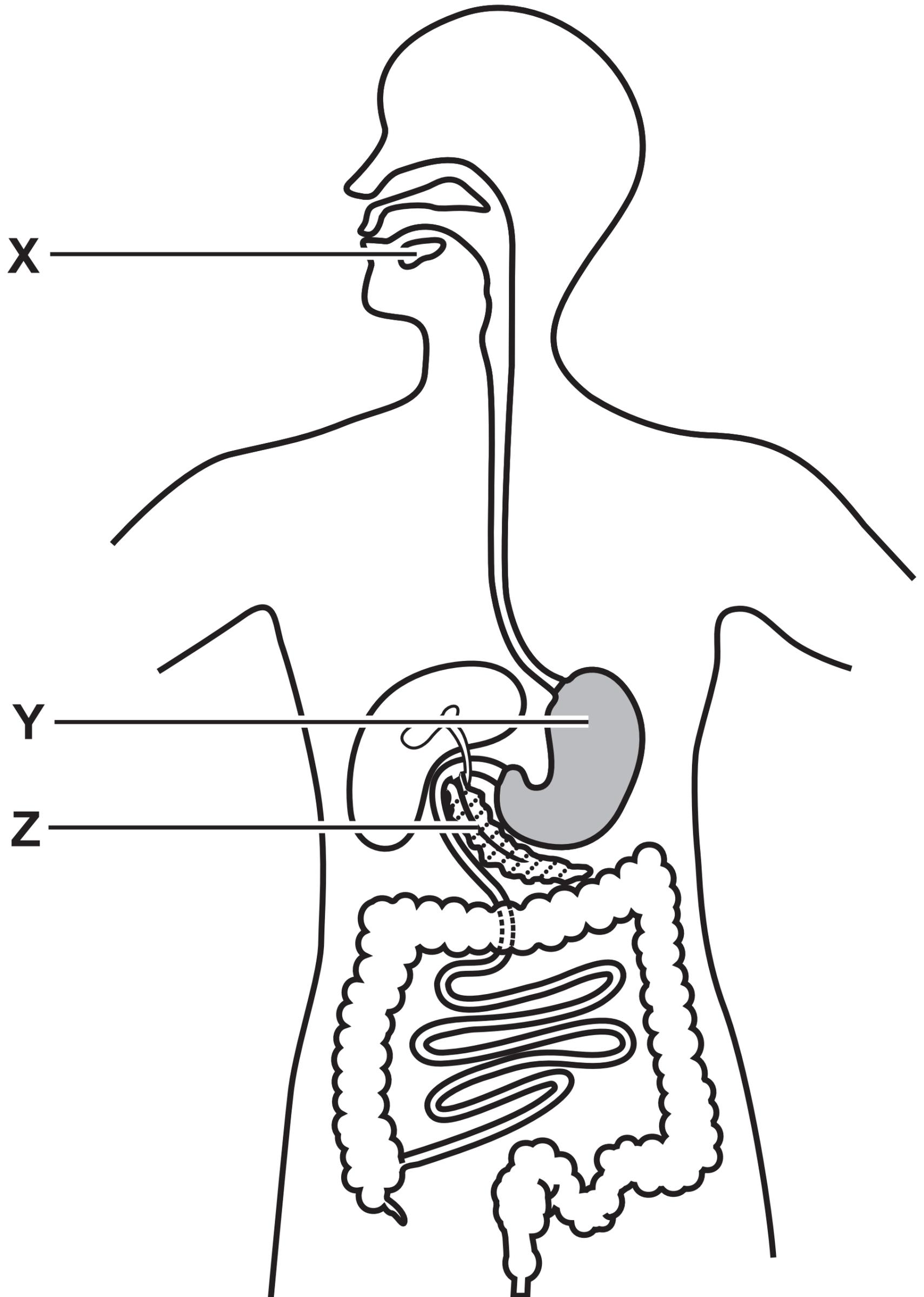
male with silkie feathers



female with silkie feathers



Question 6(a)(i)



Question 6(a)(ii)

Table 1

Enzyme	Molecule	Product
		maltose
	lipid	
protease		

Question 6(a)(ii)

Table 1

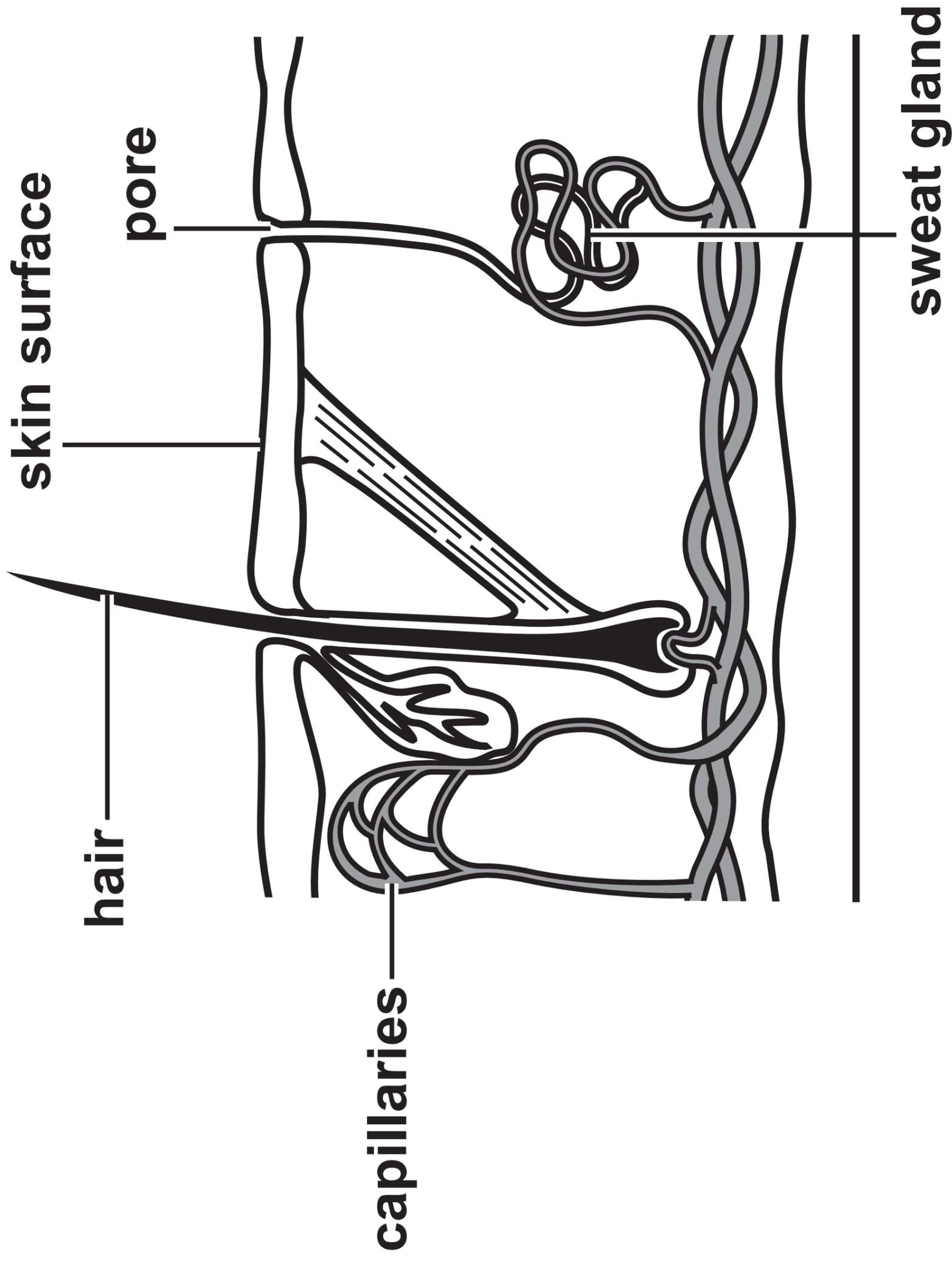
Enzyme	Molecule	Product
		maltose
	lipid	
protease		

Question 6(b)

Table 2

Amount of dietary component							
	Energy in kJ	Protein in g	Vitamin A in mg	Vitamin C in mg	Calcium in mg	Iron in mg	Fibre in g
RDA	2200	46	0.70	65	1300	15	26
Diet of person	2700	46	0.72	32	800	16	12

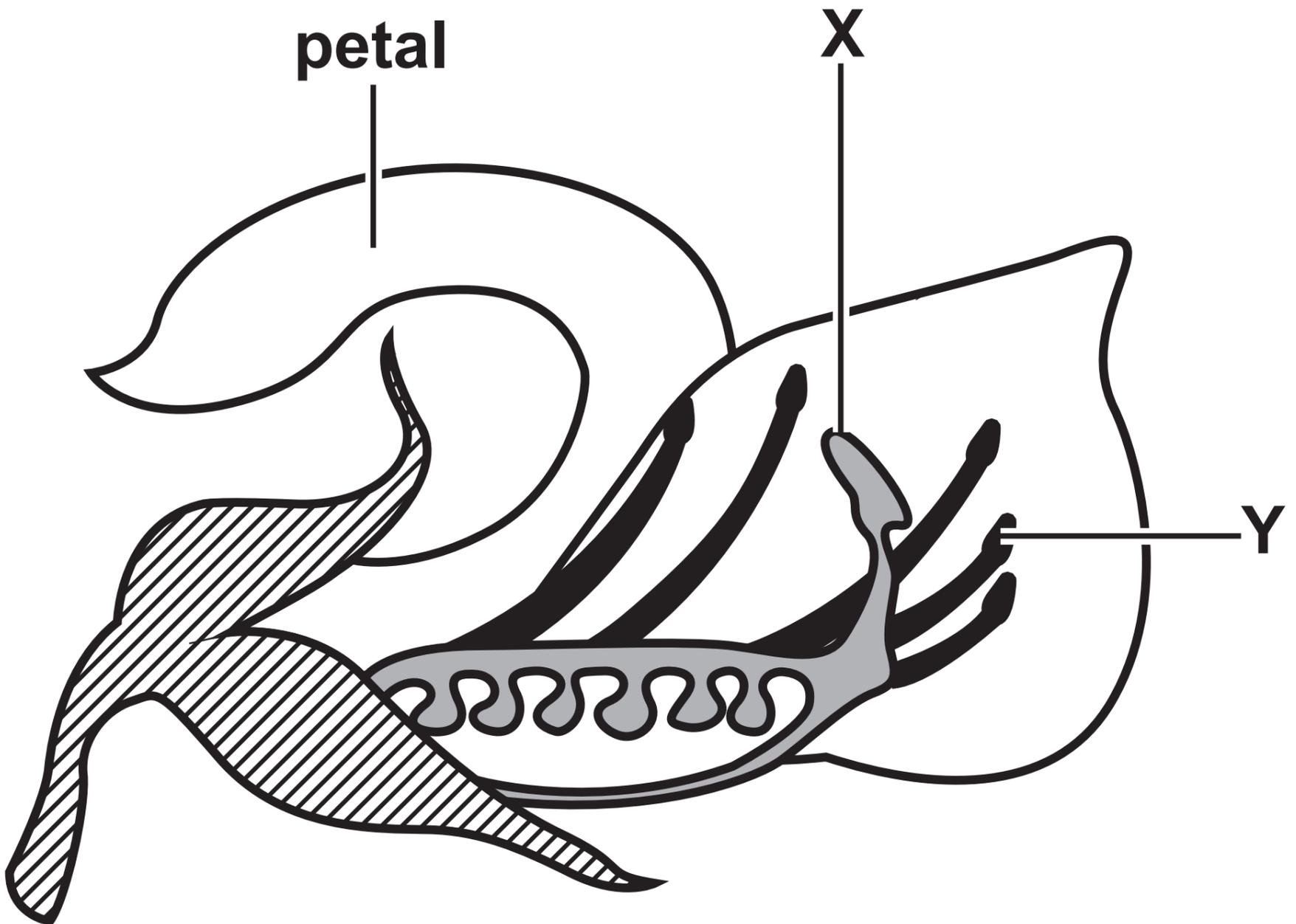
Question 7(b)



Question 8

Day	Dry mass of seedlings in g	
	Without fertiliser	With fertiliser
4	3.5	3.8
8	4.9	5.8
12	5.8	6.7
16	6.3	7.8
20	6.8	8.5

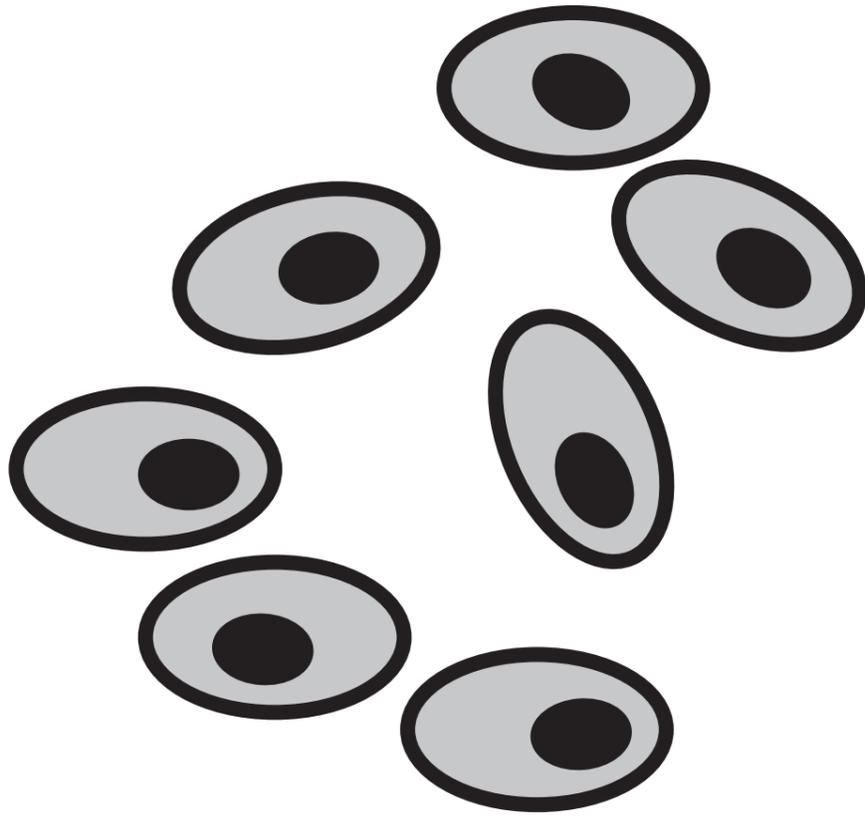
Question 9(a)



Question 9(b)

Seeds	Colour of iodine solution	Colour of Benedict's solution
ungerminated	black	blue
germinating	black	red

Question 10(a)



Question 10

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