

Human Biology
UNIT: 4HB1
PAPER: 01

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.

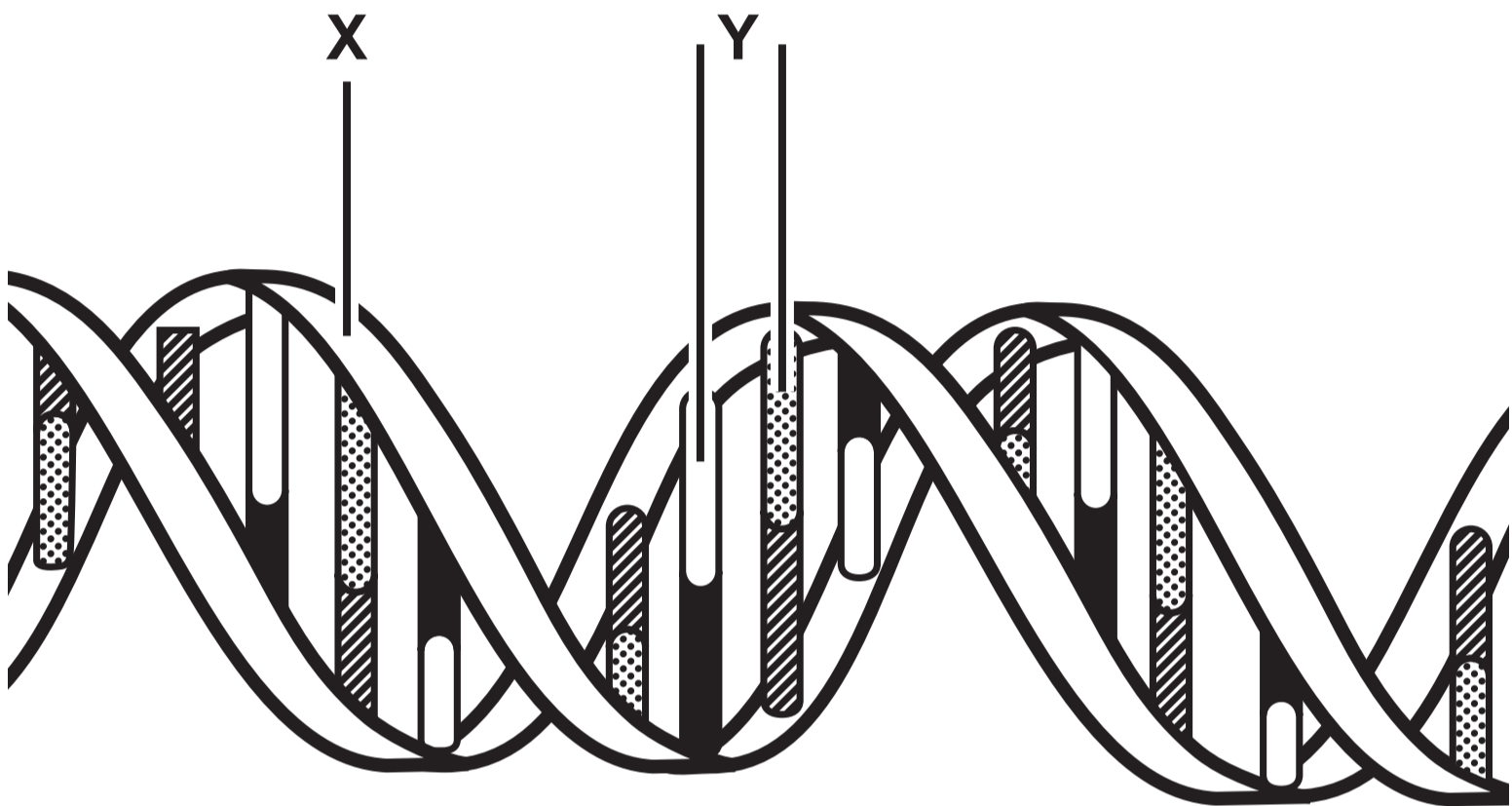
THIS DIAGRAM BOOKLET MUST BE RETURNED WITH THE QUESTION PAPER AT THE END OF THE EXAMINATION.

Contents

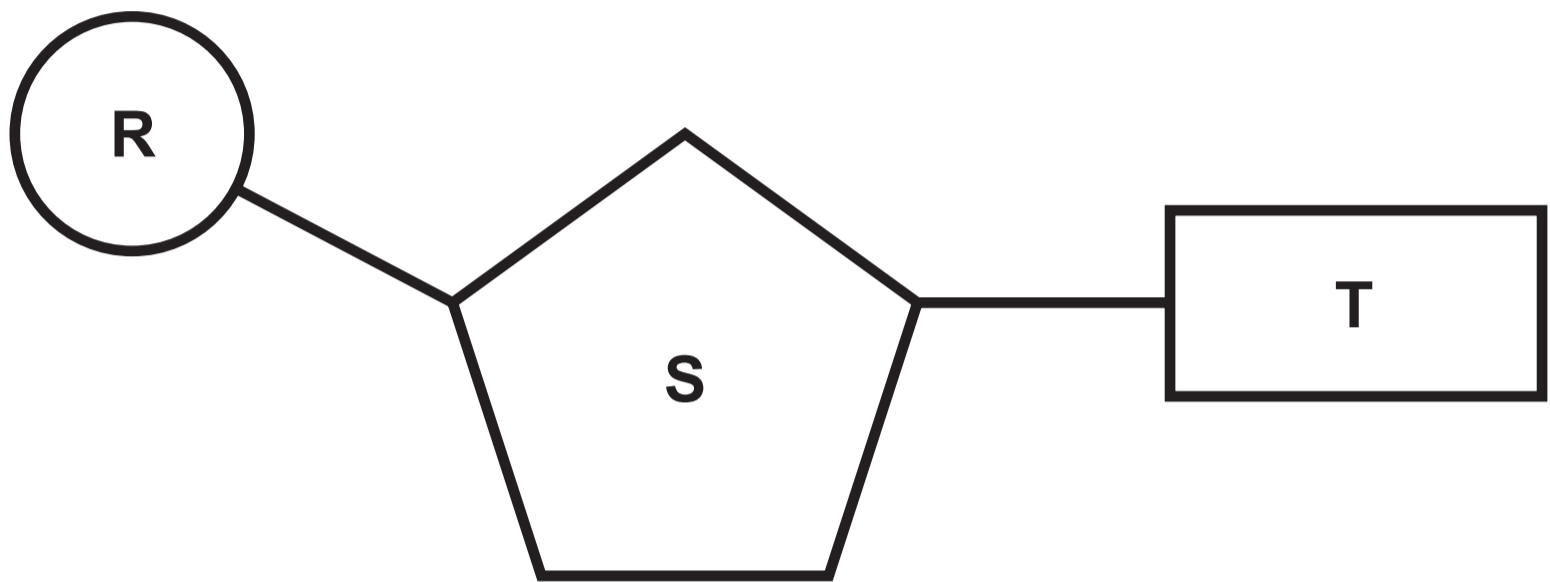
Page

4	Question 1(a)
5	Question 1(c)
6	Question 2(a)
7	Question 2(b)(i)
8	Question 2(b)(i) (Spare copy)
9	Question 3(a)
10	Question 3(b)
11	Question 4(a)(i)
12	Question 4(a)(i) (Spare copy)
13	Question 4(b)
14	Question 5(b)
15	Question 7(a)(ii)

Question 1(a)

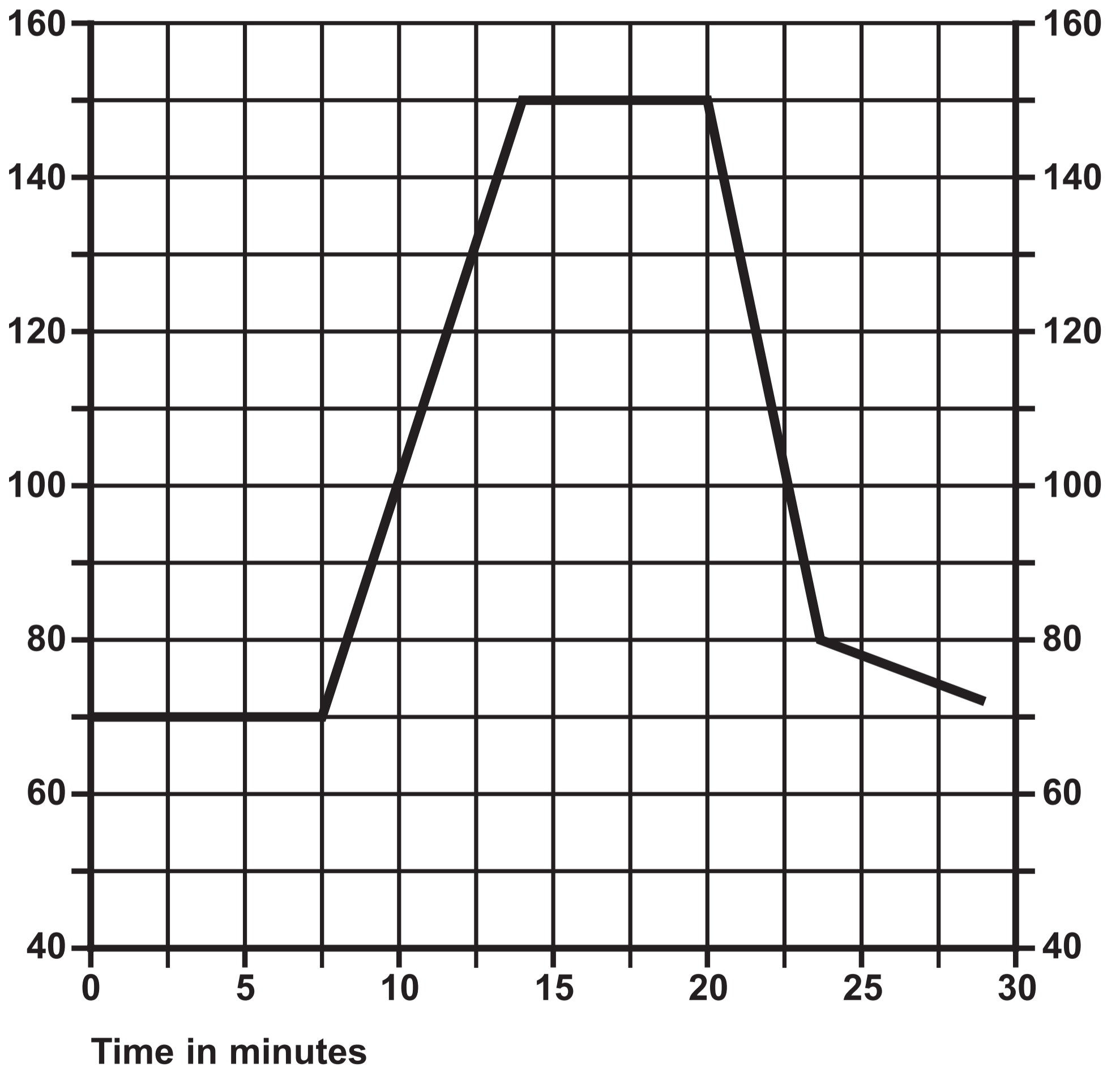


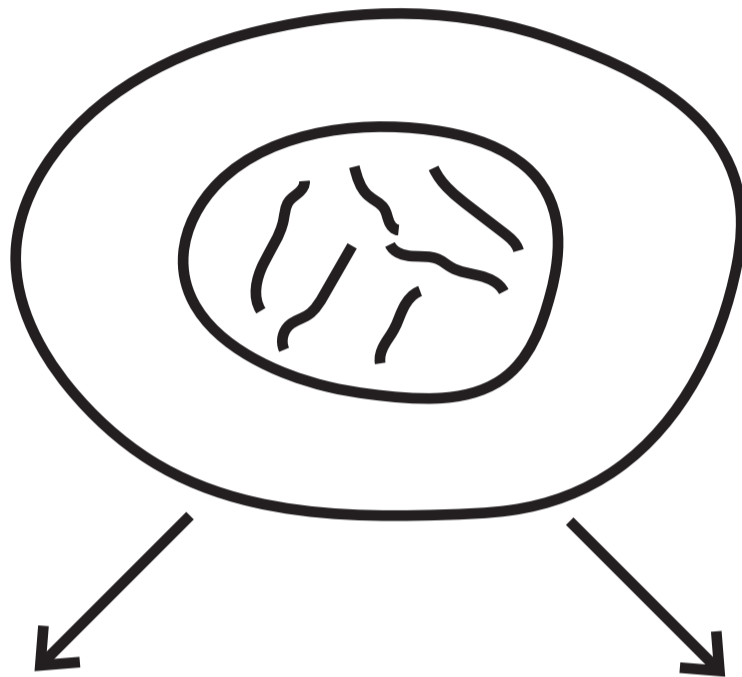
Question 1(c)



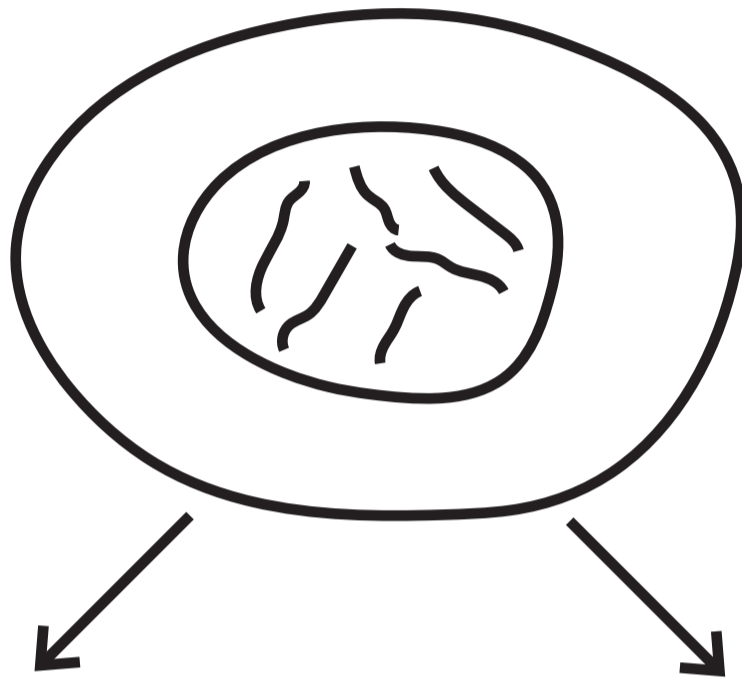
Question 2(a)

Heart rate in beats per minute

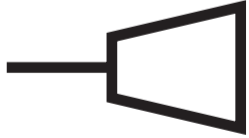


Question 2(b)(i)

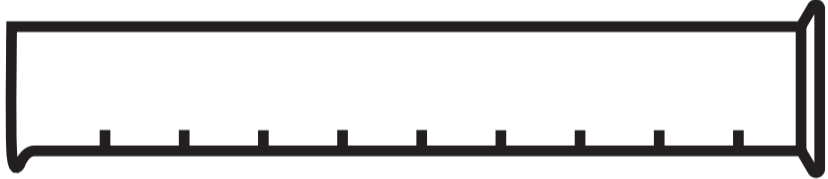
Question 2(b)(i)



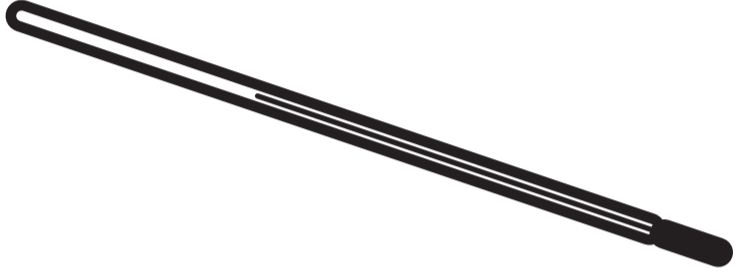
Question 3(a)



mounted needle



measuring cylinder



thermometer



test tube

Question 3(b)

Daily Energy Requirement in kcal

Age of adults in years	Males	Females
19–24	2772	2175
25–34	2749	2175
35–44	2629	2103
45–54	2581	2103
55–64	2581	2079
65–74	2342	1912
75 and over	2294	1840

Question 4(a)(i)

Africa

Blood group	Percentage of blood group
O	68
A	
B	
AB	5

Europe

Blood group	Percentage of blood group
O	45
A	
B	12
AB	

Question 4(a)(i)

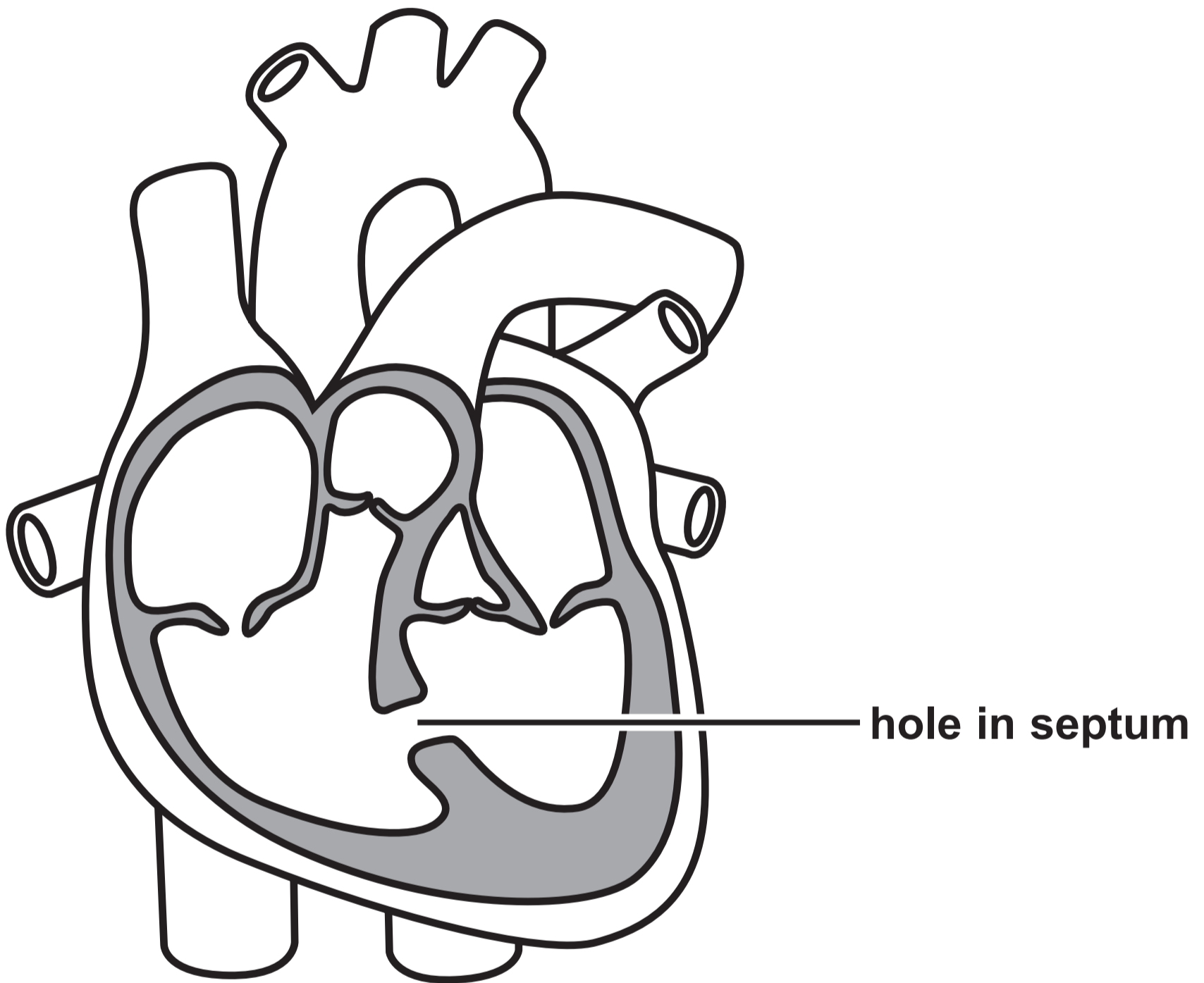
Africa

Blood group	Percentage of blood group
O	68
A	
B	
AB	5

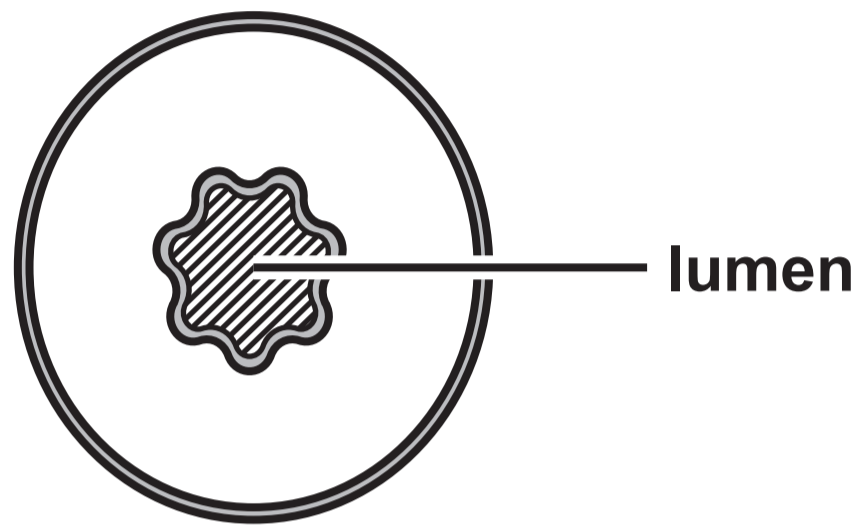
Europe

Blood group	Percentage of blood group
O	45
A	
B	12
AB	

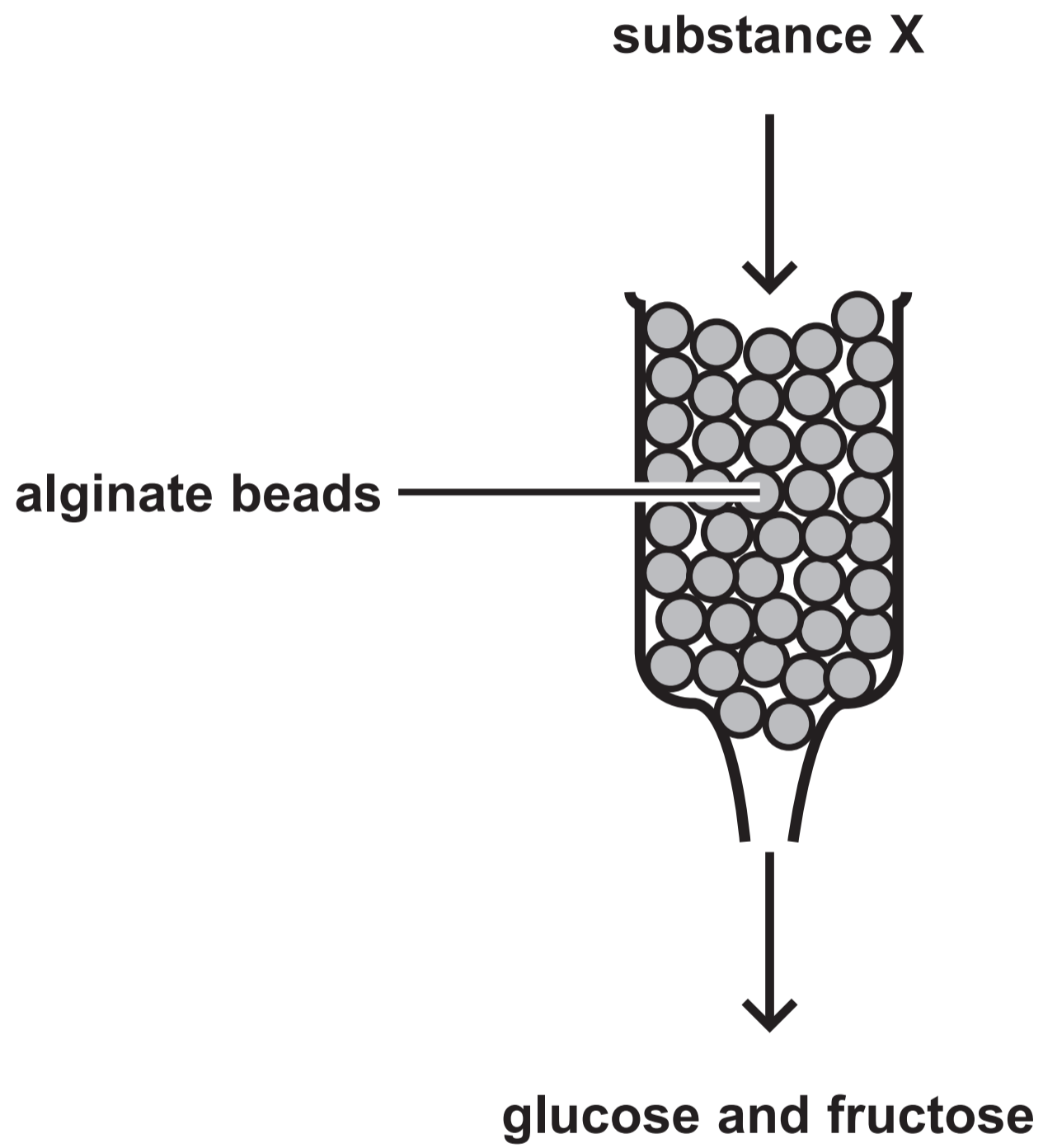
Question 4(b)



Question 5(b)



Question 7(a)(ii)



Question 3(b)

(Source: adapted from https://propranolols.blogspot.com/2020/02/daily-nutritional-requirements-for_9.html)