

Paper Reference(s) 9BN0/02

Pearson Edexcel Level 3 GCE

Biology A (Salters Nuffield)

Advanced

PAPER 2: Energy, Exercise and Coordination

Friday 13 June 2025 – Morning

Time: 2 hours

Diagram Booklet

THIS DOCUMENT MUST BE RETURNED TO
PEARSON AT THE END OF THE EXAMINATION

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.

CONTENTS

Page

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

(continued on the next page)

Turn over

CONTENTS continued.

Page

17 Question 9 – picture

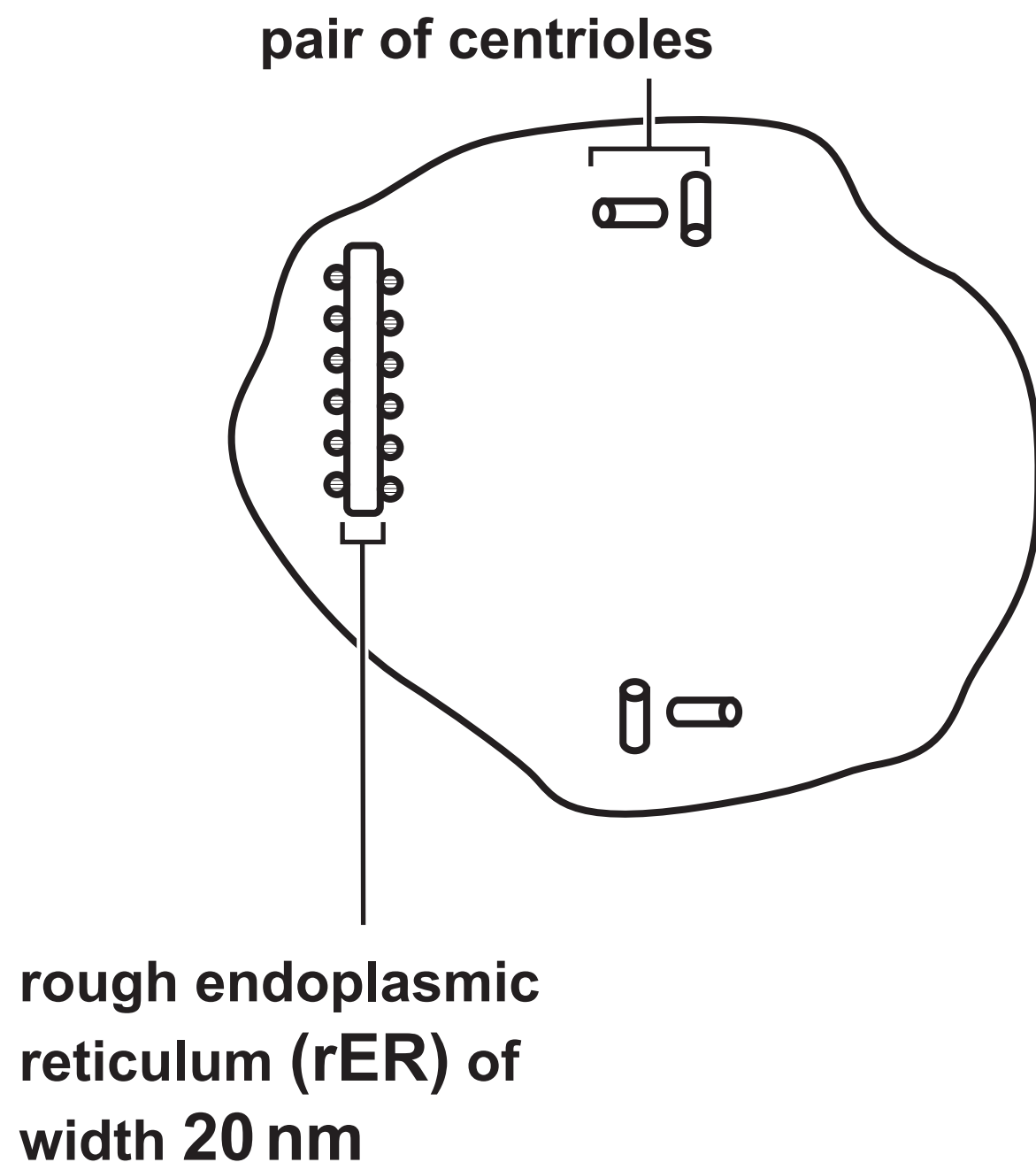
18 Question 9 – outline

19 Question 10(b) – picture

20 Question 10(b) – outline

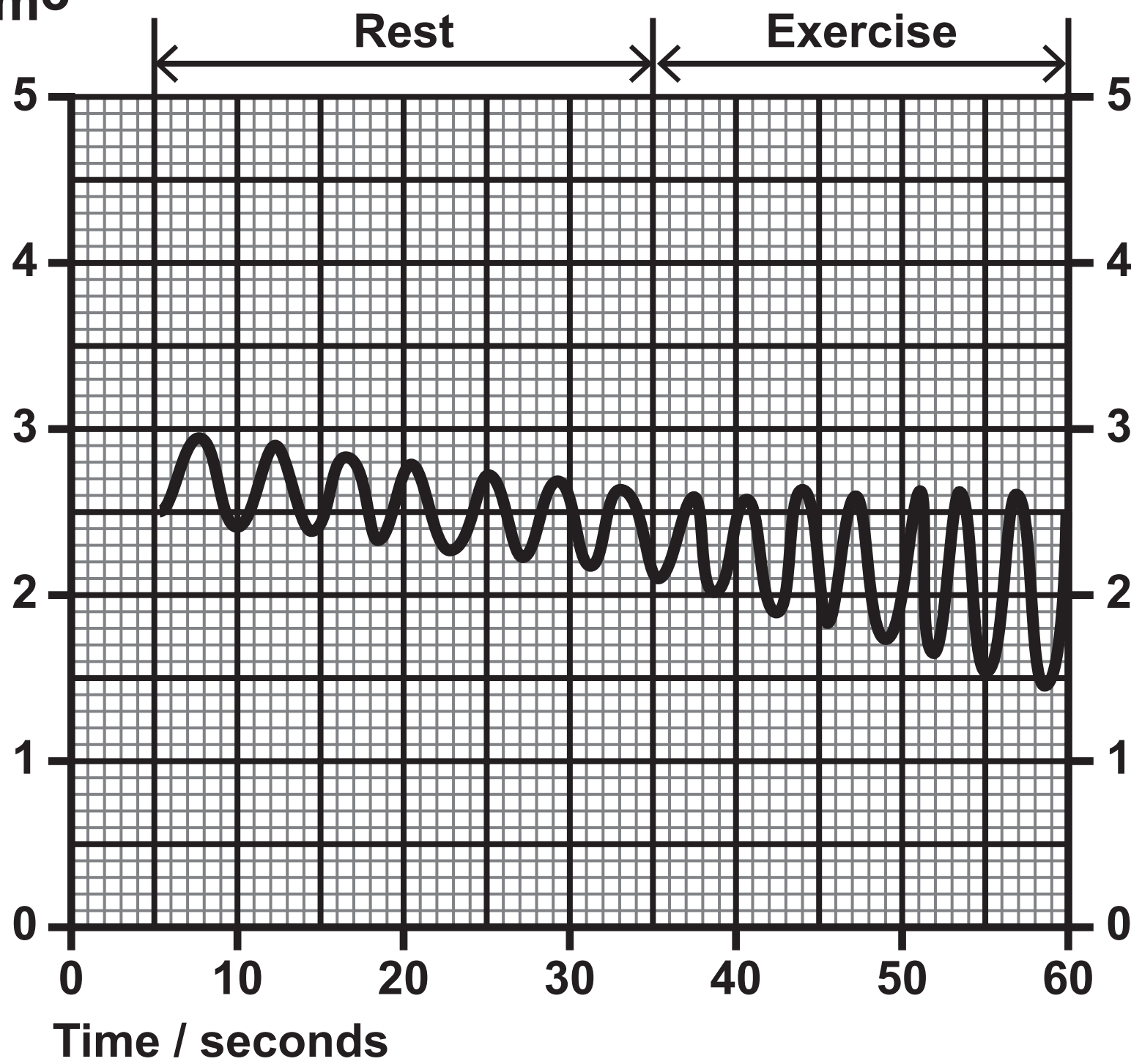
Spare Copies

21 Question 7(a) – spare copy

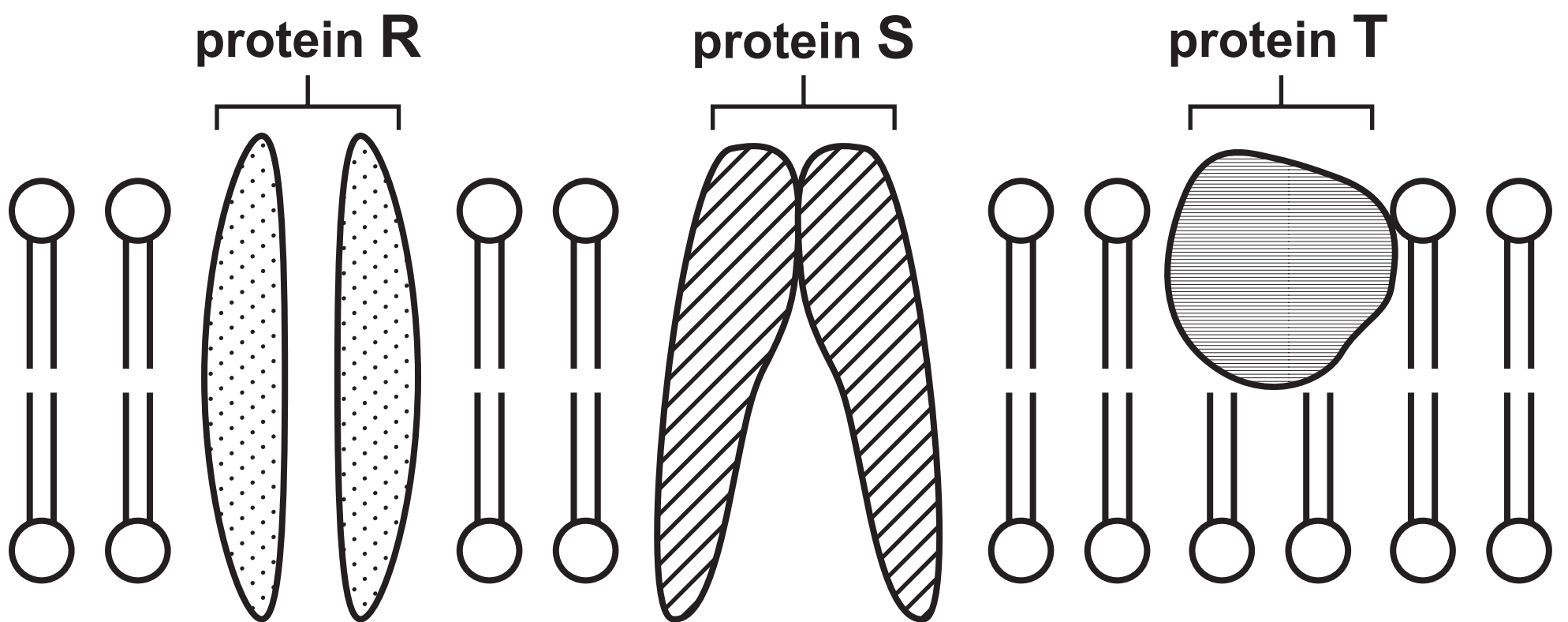
Question 1(a)

Question 2(b)

Volume of air
/ dm^3

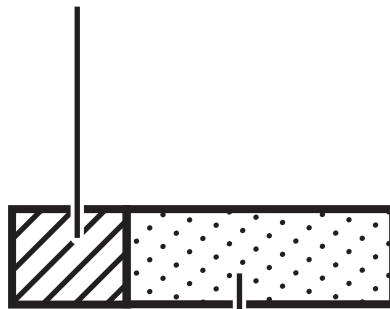


Question 3



Question 3(a)

hydrophilic component



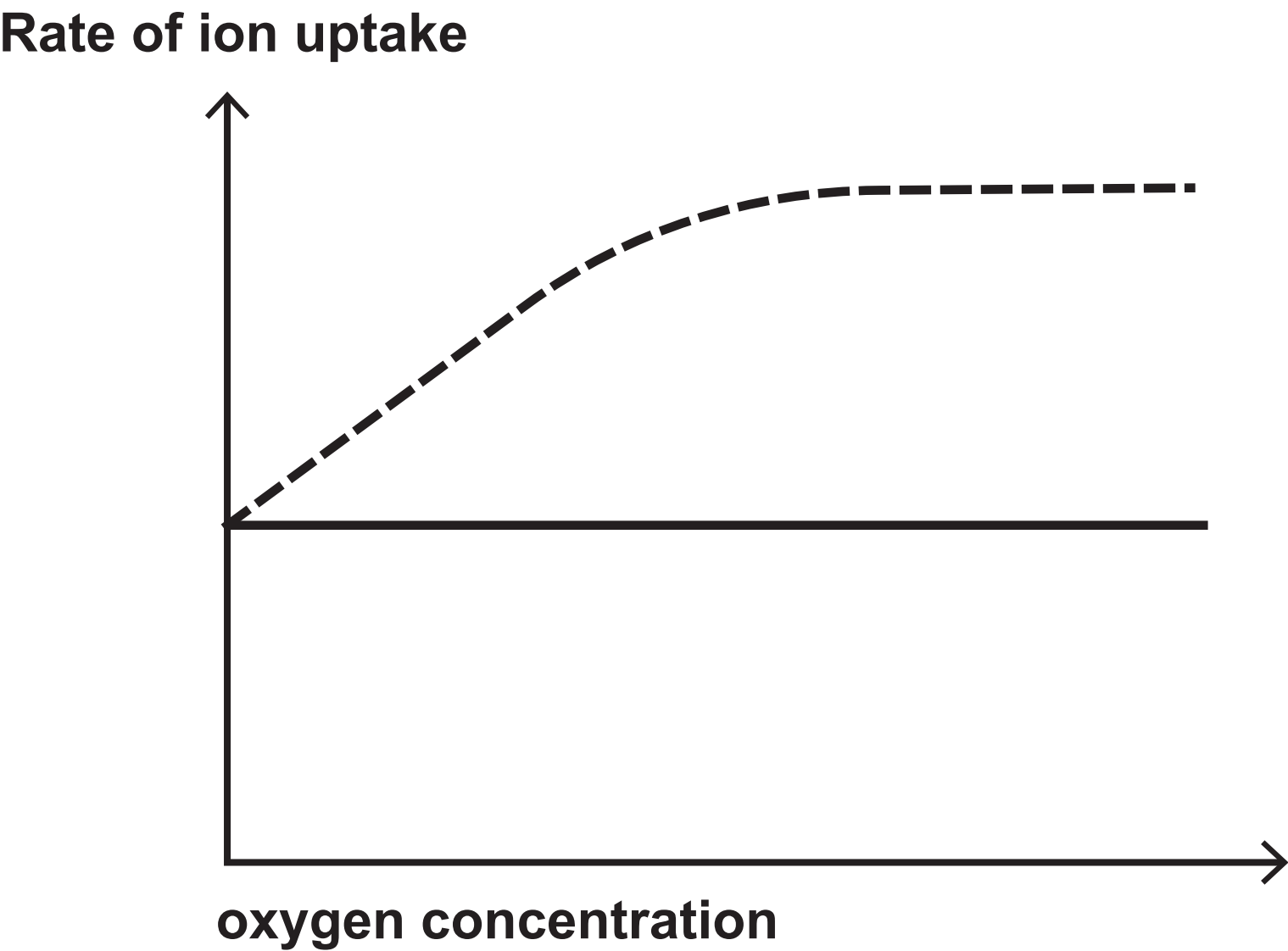
hydrophobic component

Question 3(b)

KEY

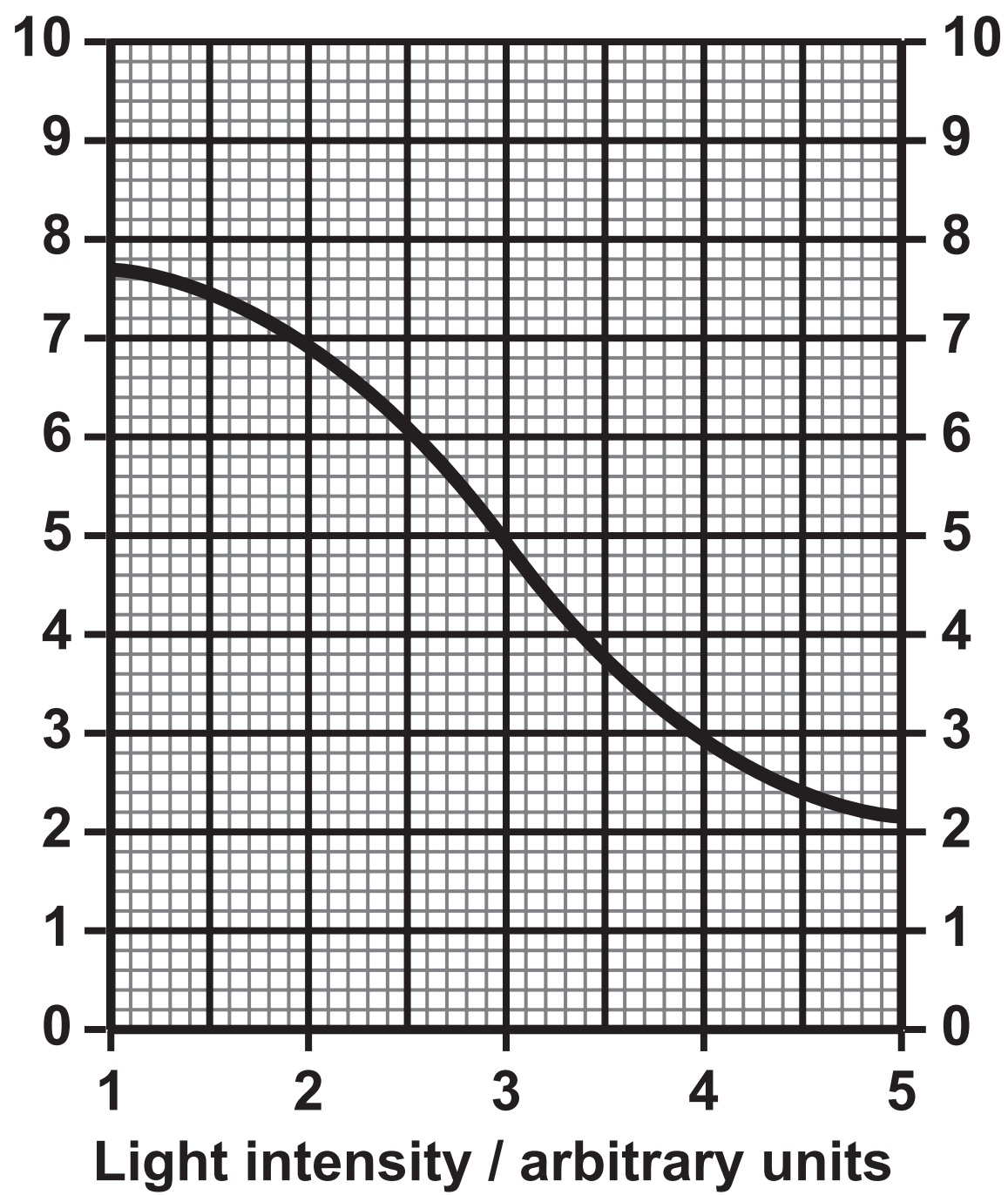
----- ion P

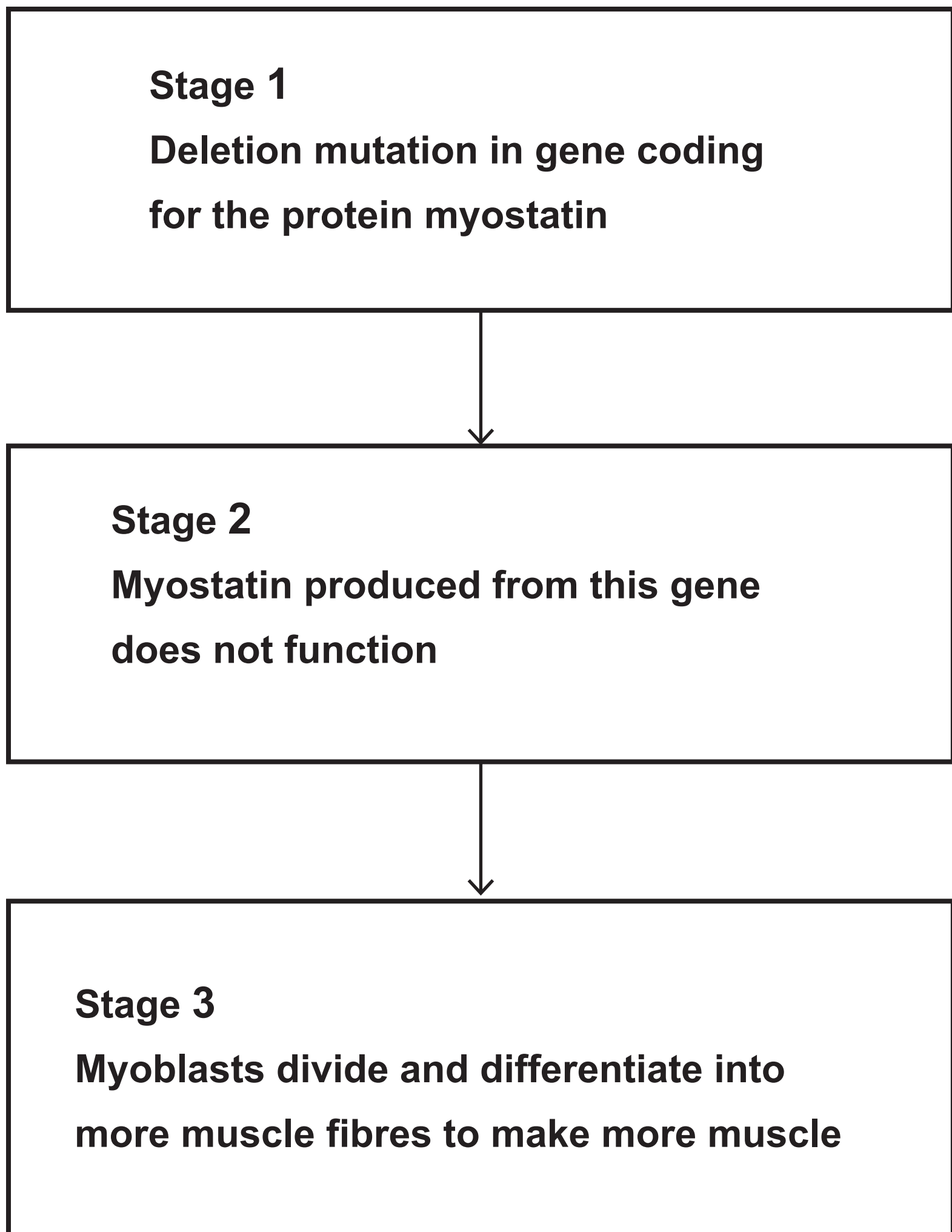
———— ion Q



Question 4(c)

Pupil diameter / mm



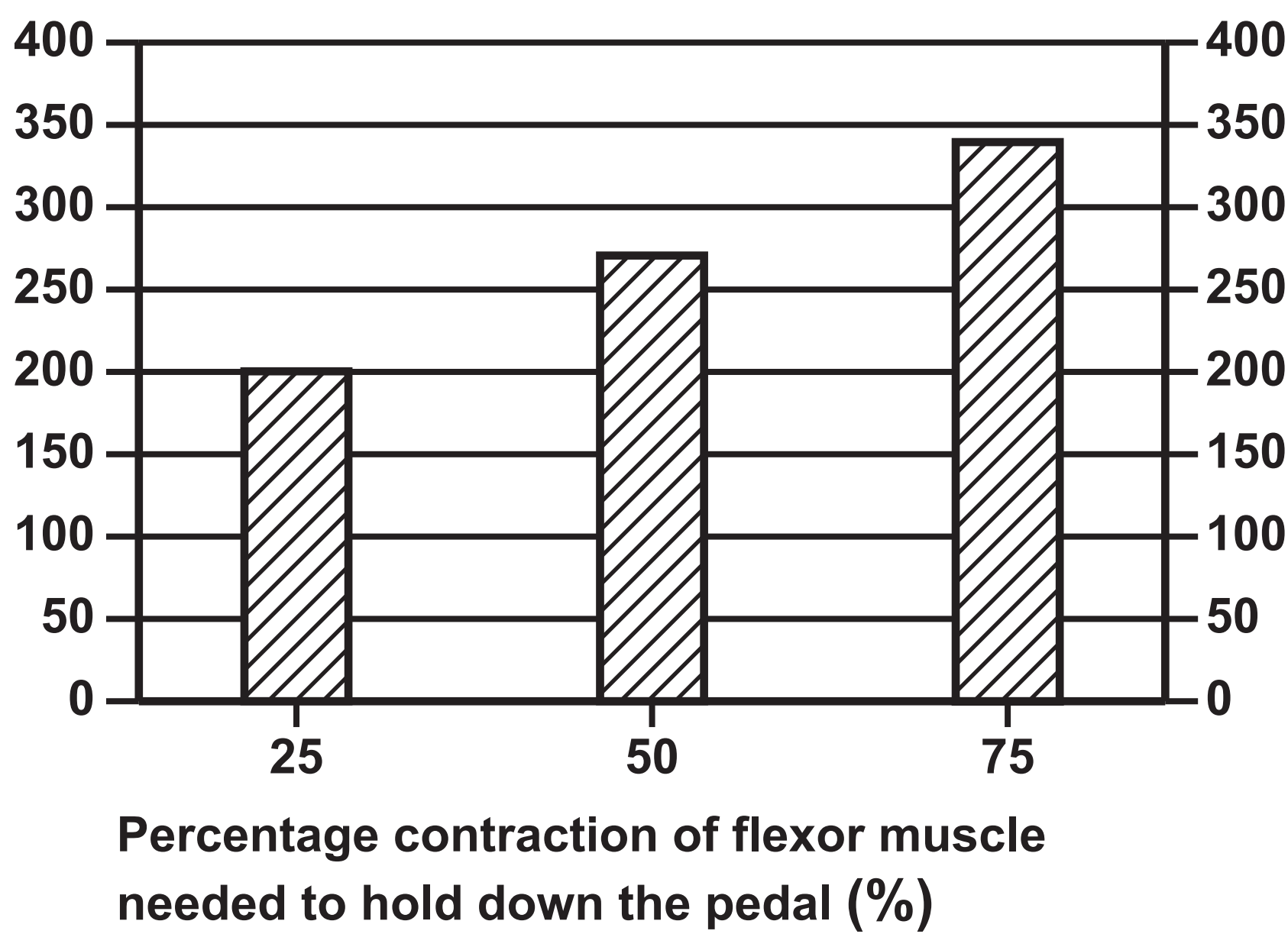
Question 5

T	G	T	G	A	T	G	A	A	C	A	C	T	C	C	A	C	A	G	A	A
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

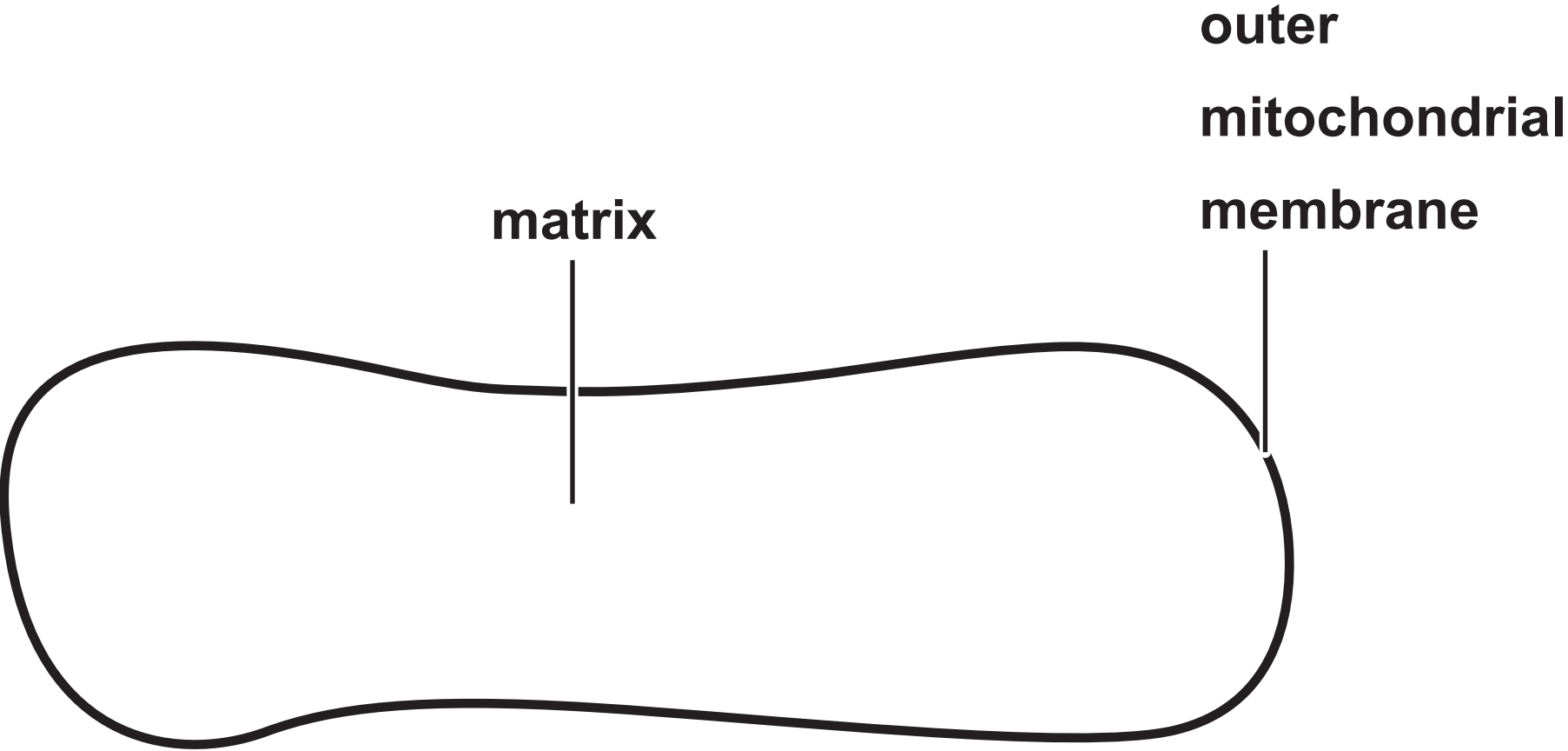
T	G	T	G	A	T	G	A	A	C	A	C	T	C	C	A	C	A	G	A	A
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Question 6

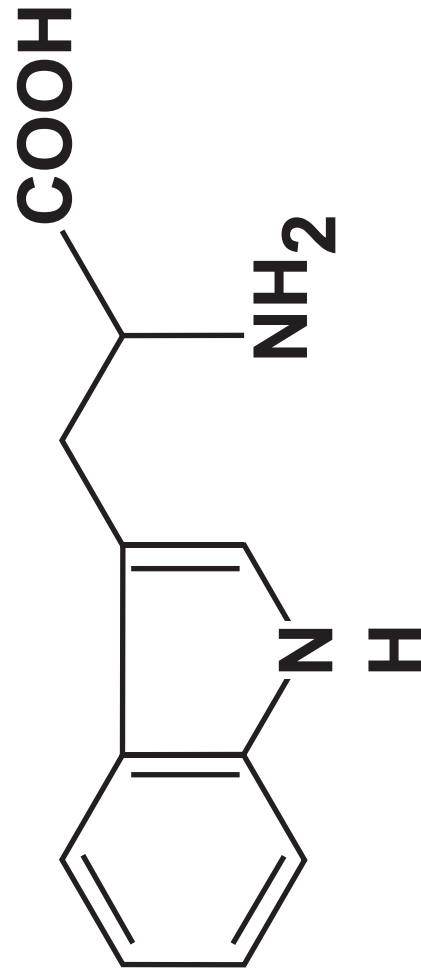
Mean response time / ms



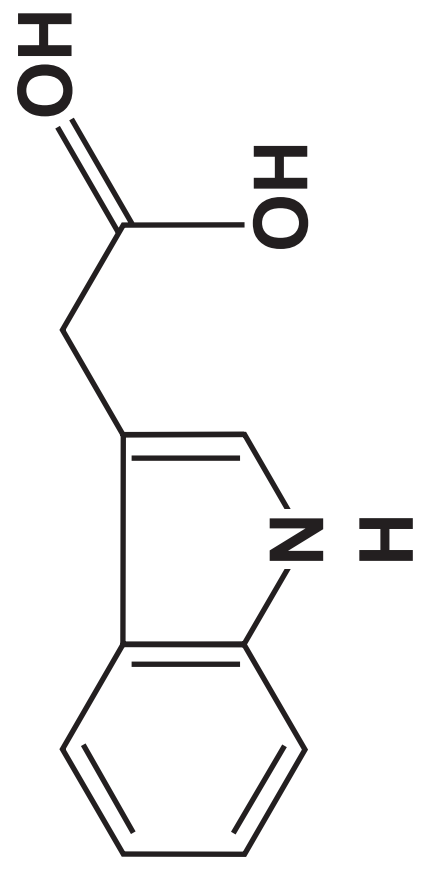
Question 7(a)

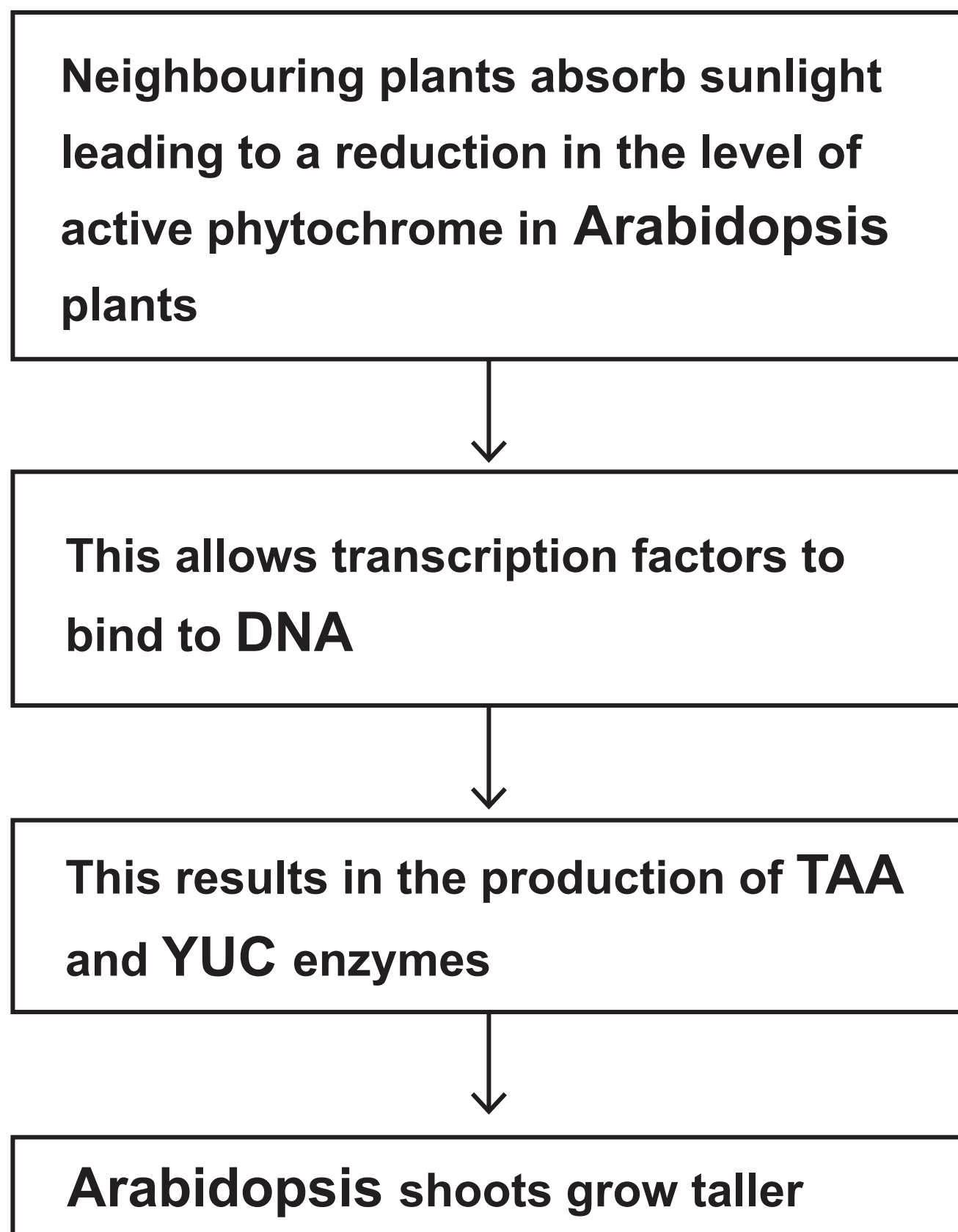


Molecule Q

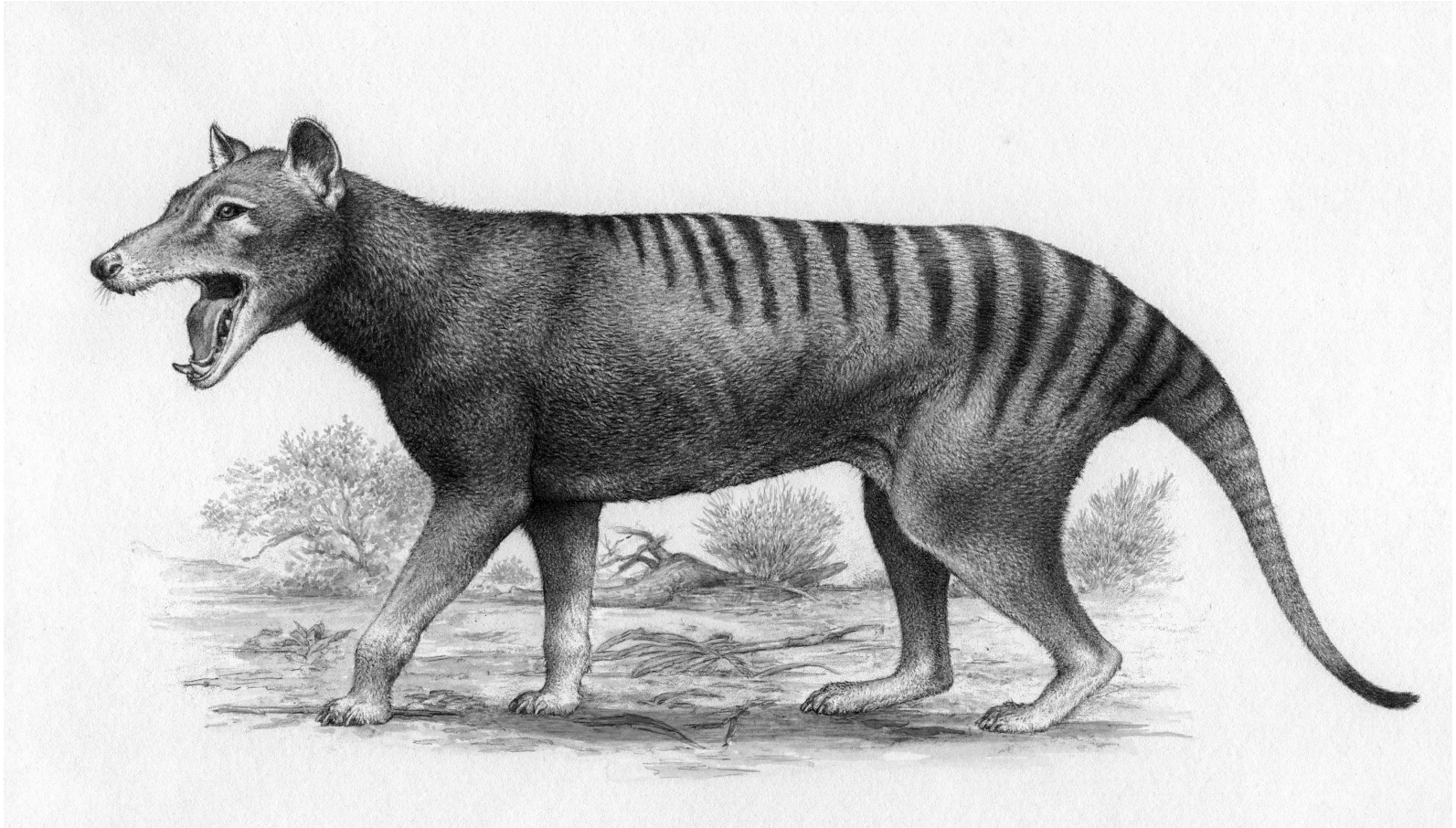


Auxin (IAA)

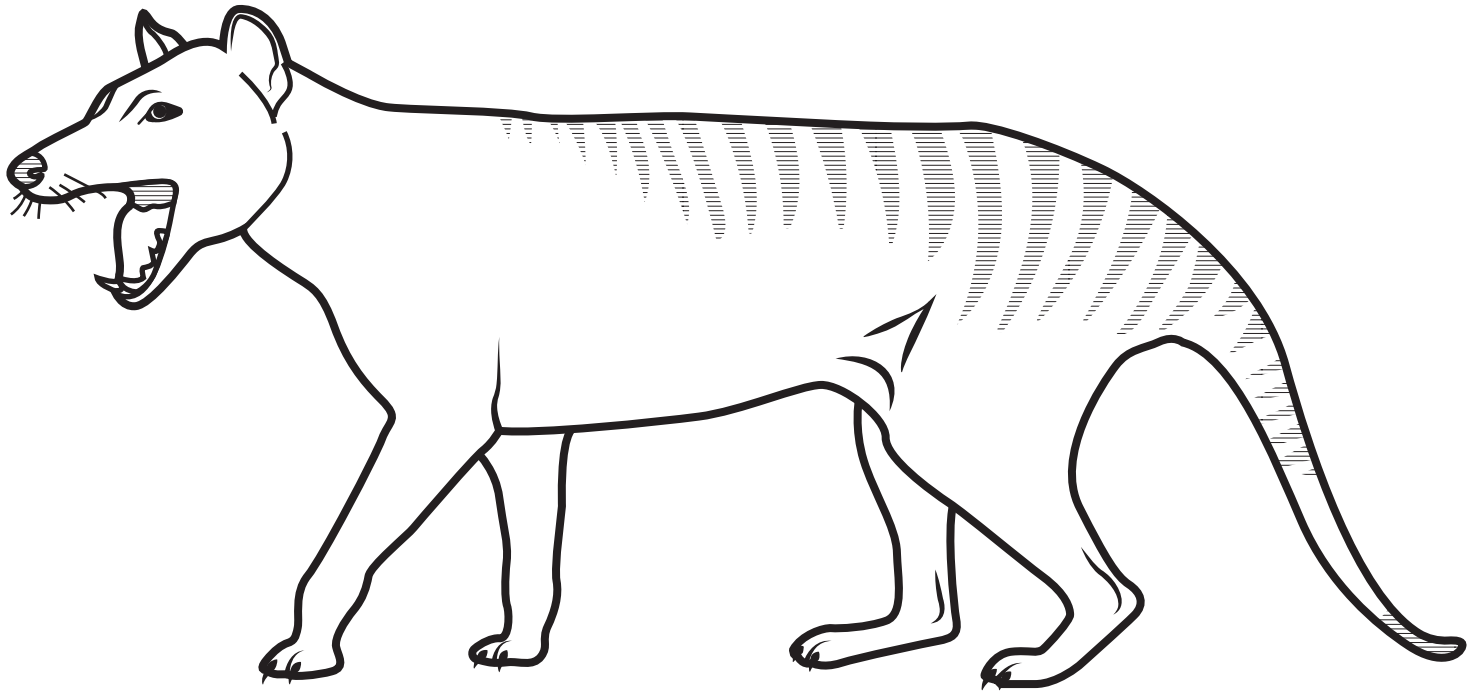


Question 8(b)(ii)

Question 9 – picture



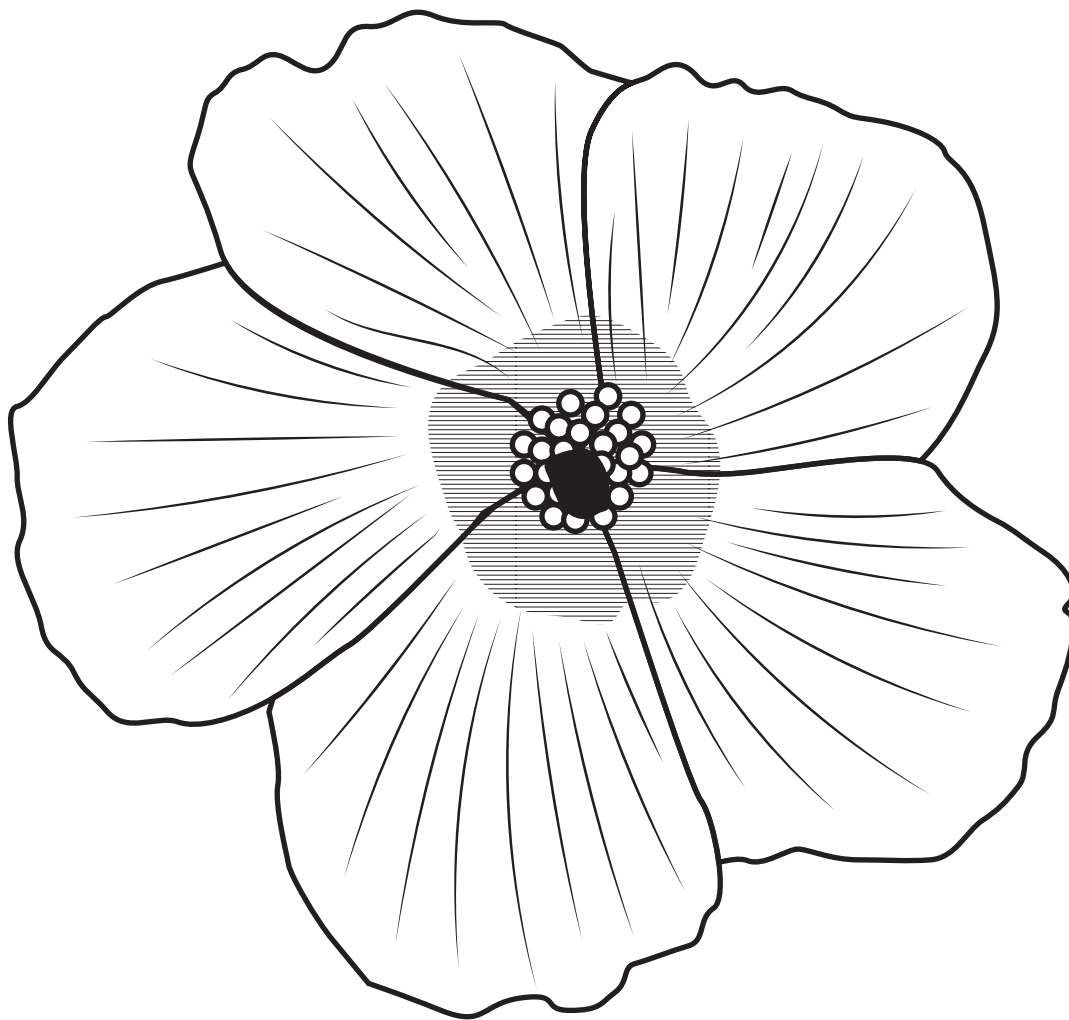
Question 9 – outline

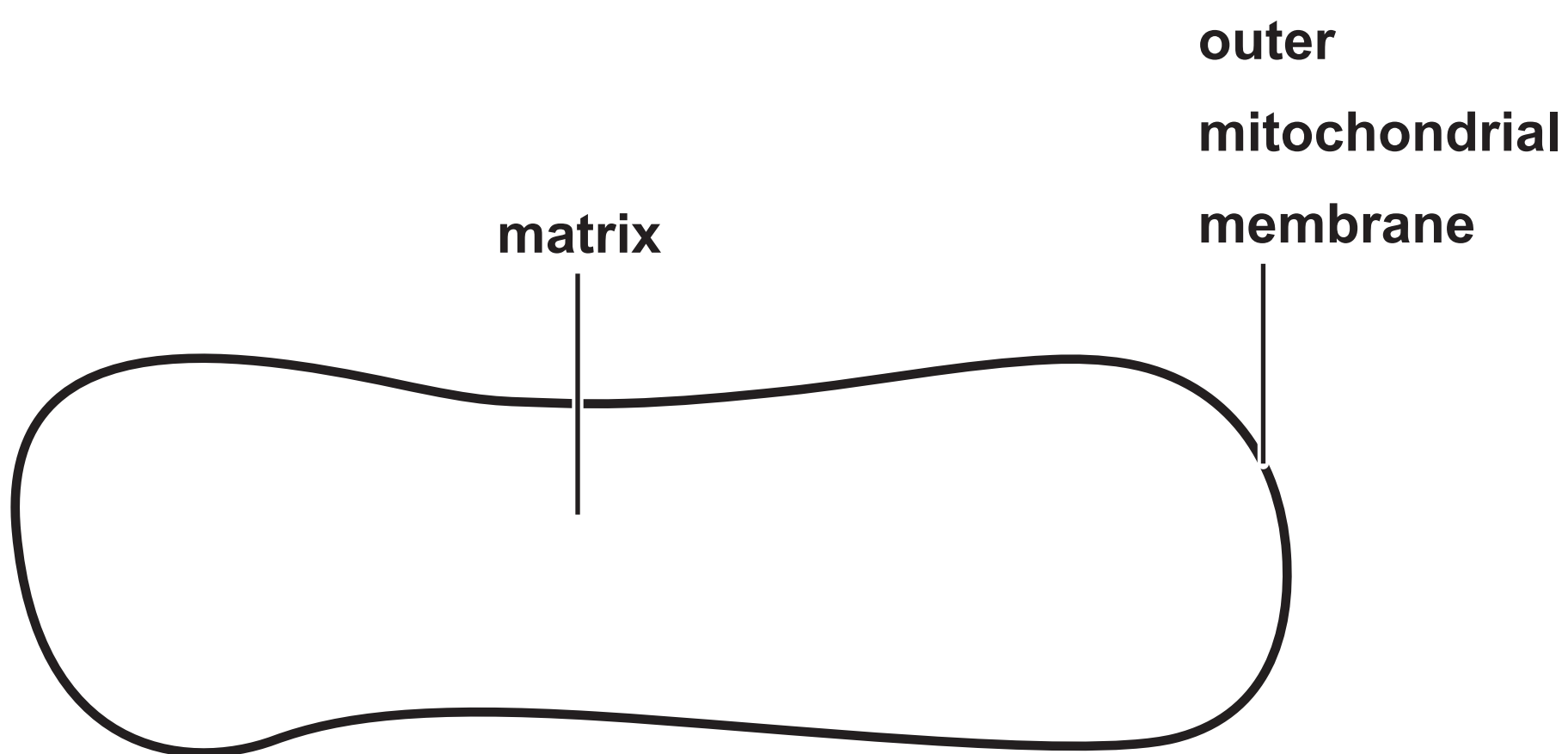


Question 10(b) – picture

Roselle (*Hibiscus sabdariffa*)



Question 10(b) – outline**Roselle (*Hibiscus sabdariffa*)**

Question 7(a) – spare copy

Source information

Question 9

Source: © John Sibbick/Science Photo Library

Question 10(b)

Source: © K Jayaram/Science Photo Library