

Paper Reference(s) 9BN0/03

Pearson Edexcel Level 3 GCE

Biology A (Salters Nuffield)

Advanced

**PAPER 3: General and Practical Applications
in Biology**

Wednesday 18 June 2025 – Morning

Time: 2 hours

Diagram Booklet

In the boxes below, write your name, centre number and candidate number.

Surname					
Other names					
Centre Number					
Candidate Number					

**THIS DOCUMENT MUST BE RETURNED
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THE EXAMINATION**

INSTRUCTIONS

**There may be spare copies of
some diagrams.**

CONTENTS

Page

4	Question 1(a)
5	Question 2
6	Question 2(b)
7	Question 3(b)
8	Question 3(b)(iii)

(continued on the next page)

Turn over

CONTENTS continued.

Page

9 Question 4(a)

10 Question 4(b)

11 Question 4(b)(ii)

12 Question 5(b)

13 Question 5(c)

14 Question 6

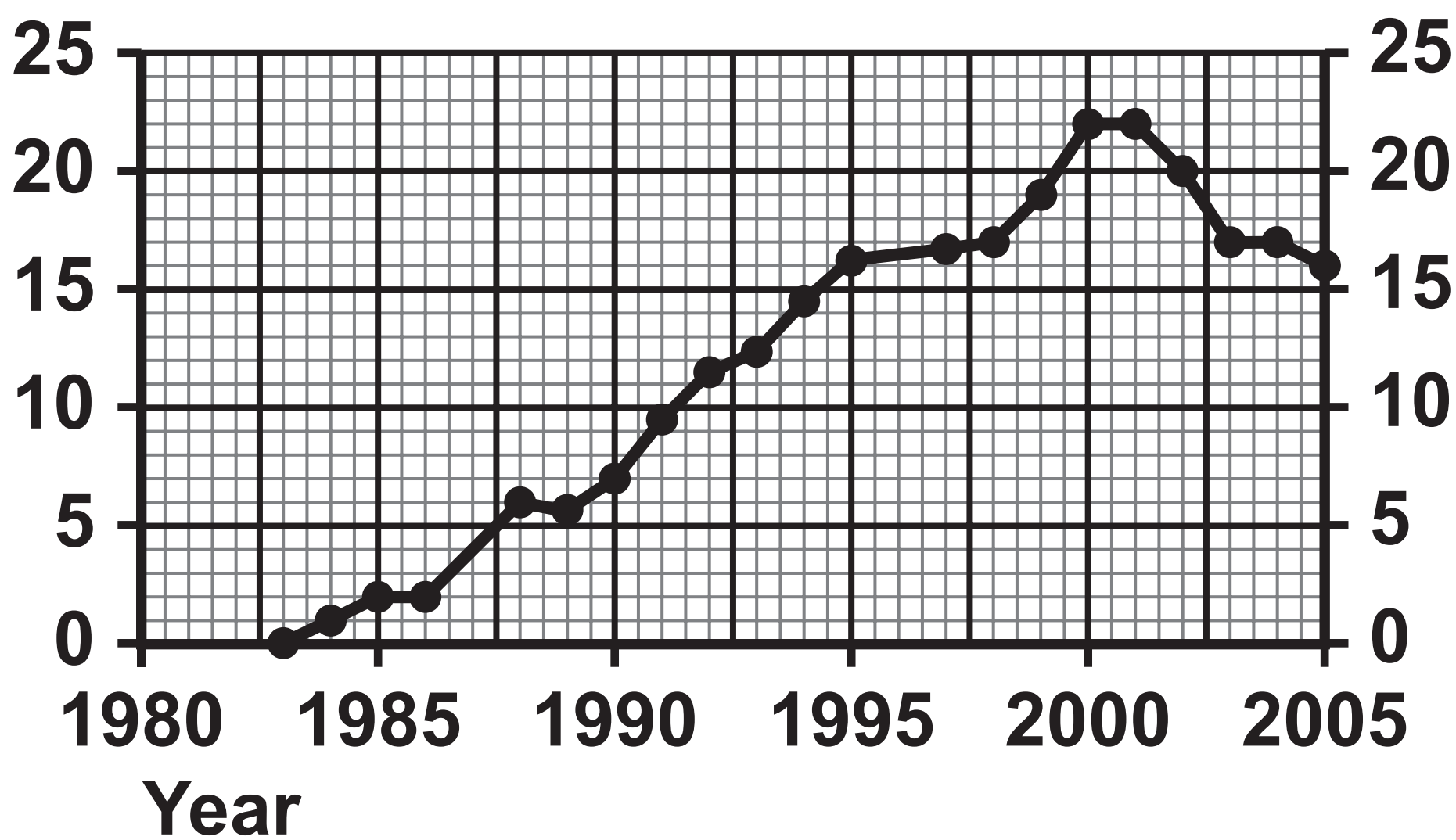
15 Question 8(f)

Spare Copies

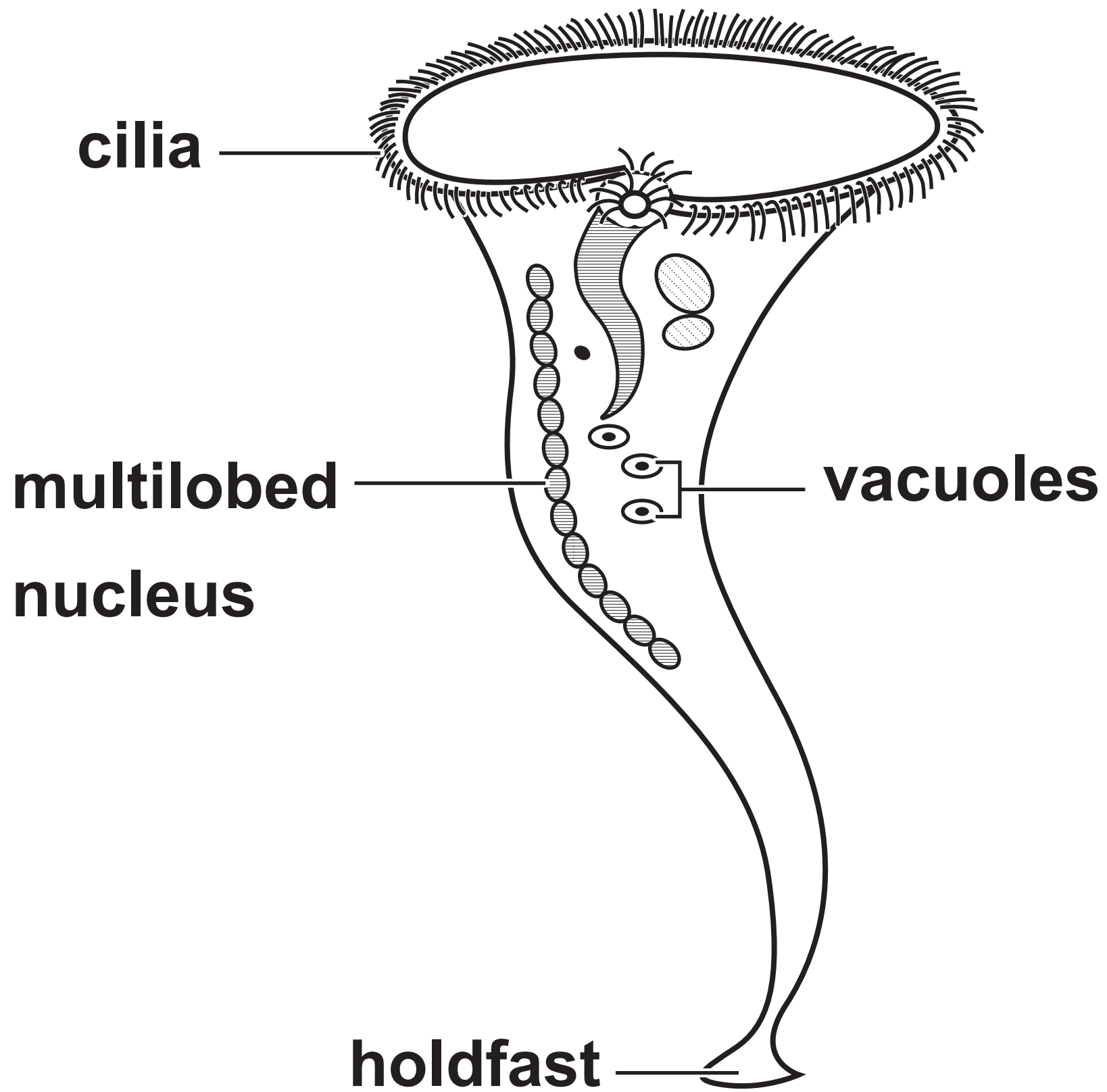
16 Question 4(a) – Spare copy

Question 1(a)

Mean species richness

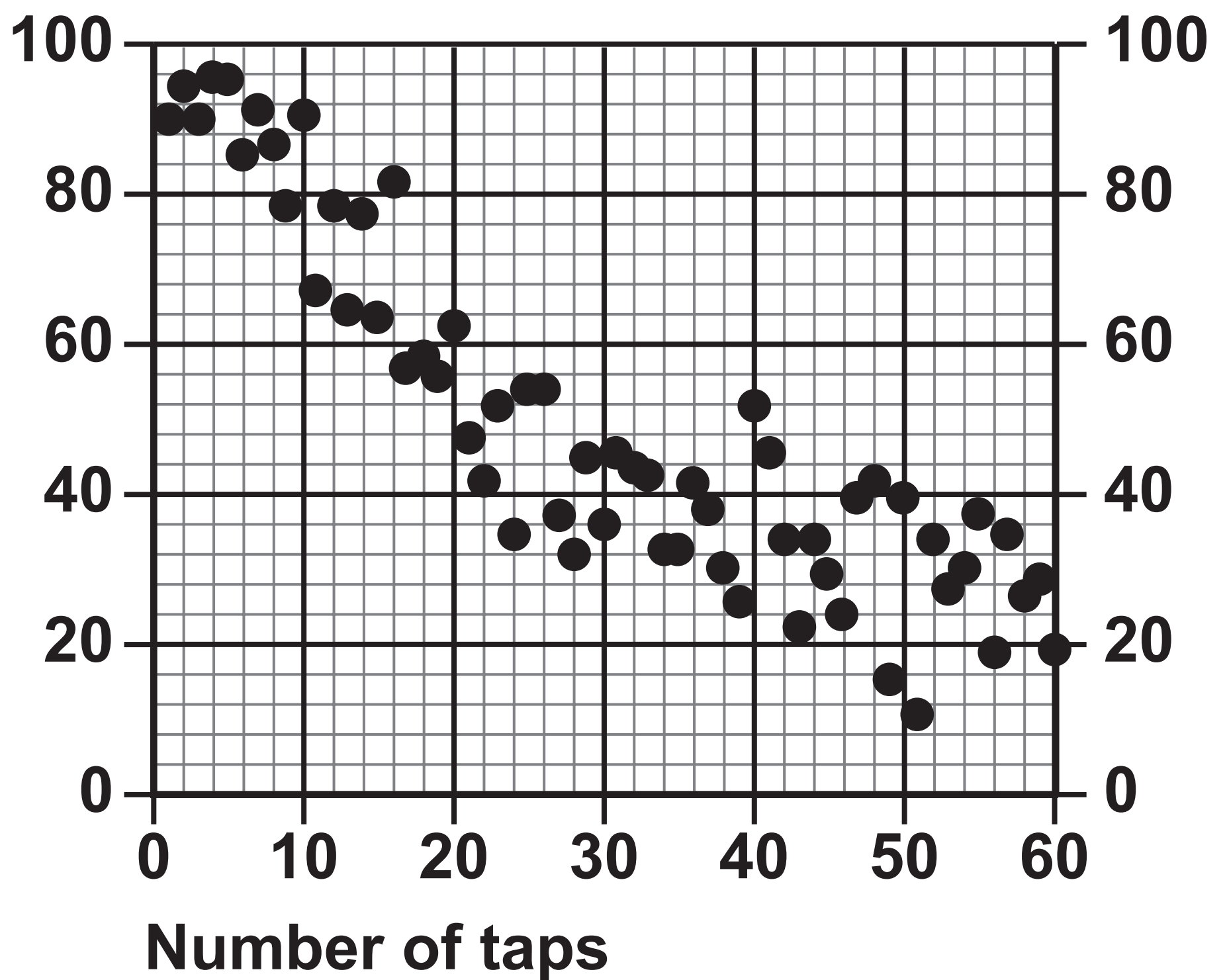


Question 2



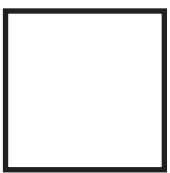
Question 2(b)

**Percentage of Stentors
contracting (%)**

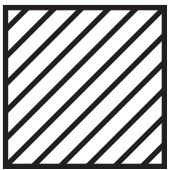


Question 3(b)

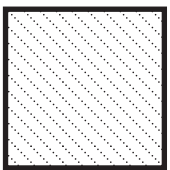
KEY



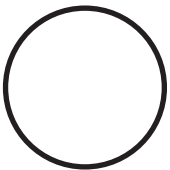
Unaffected male



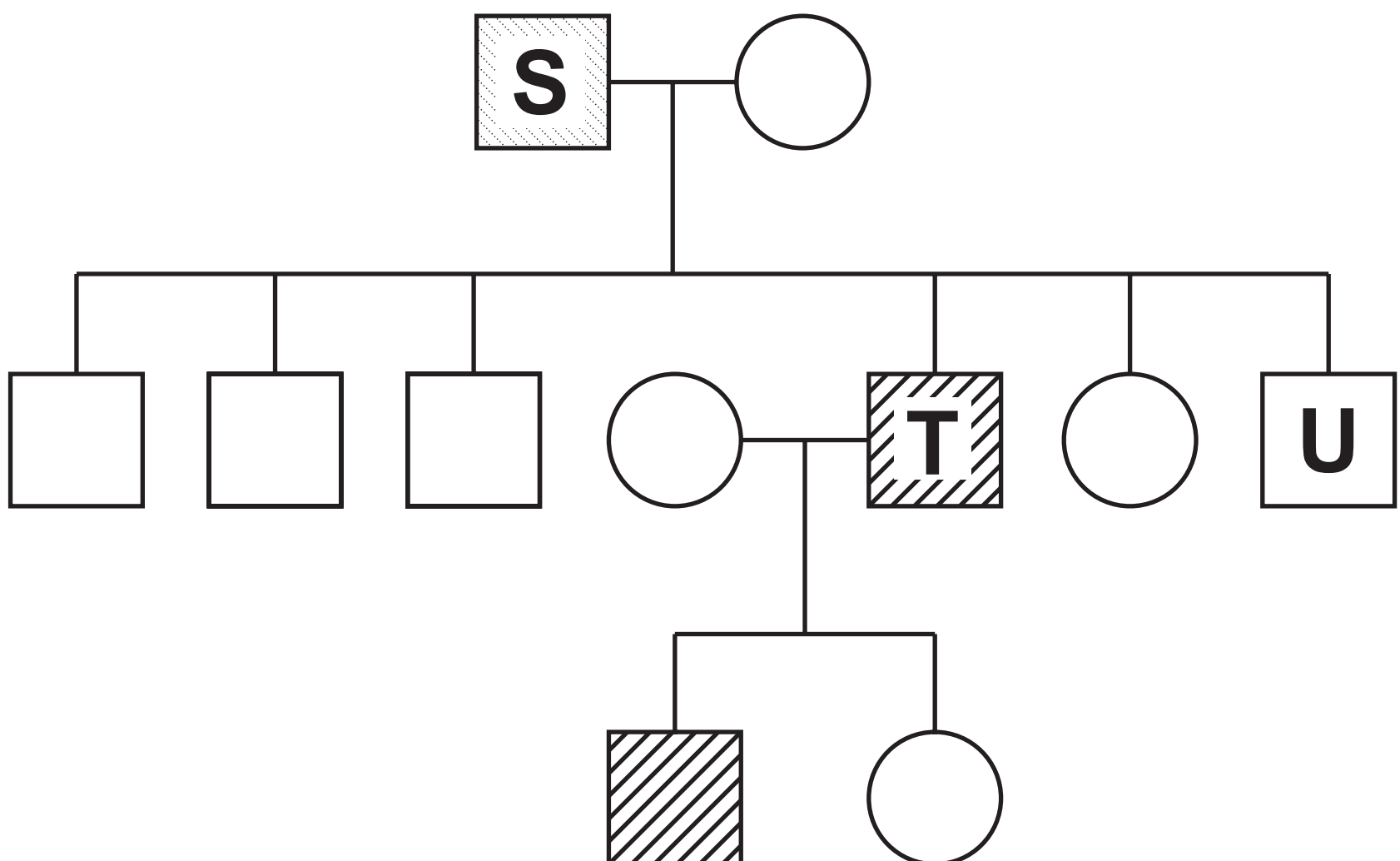
Affected male



Dead male (unknown phenotype)



Unaffected female



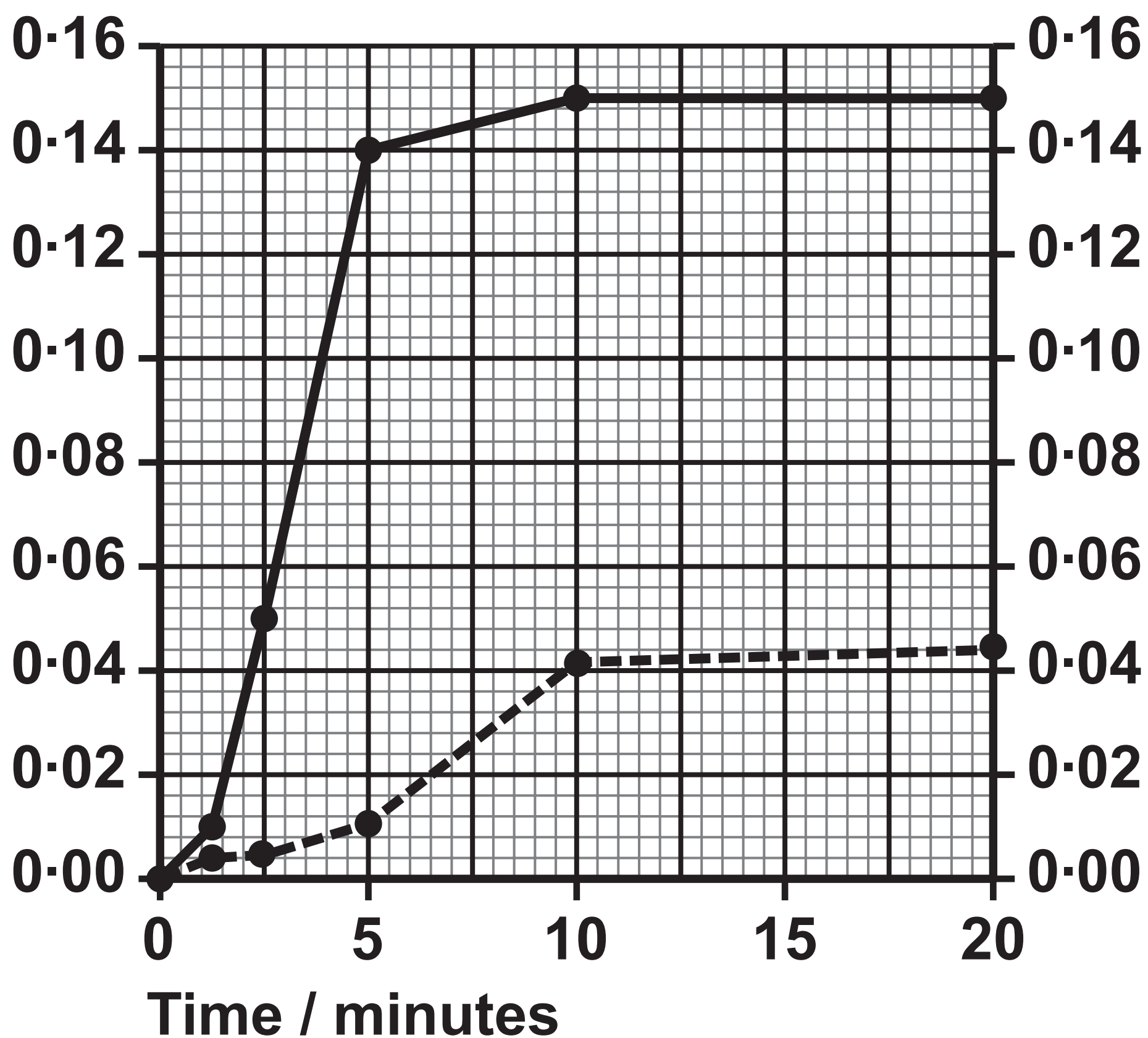
Question 3(b)(iii)

KEY

— Individual U

---- Individual T

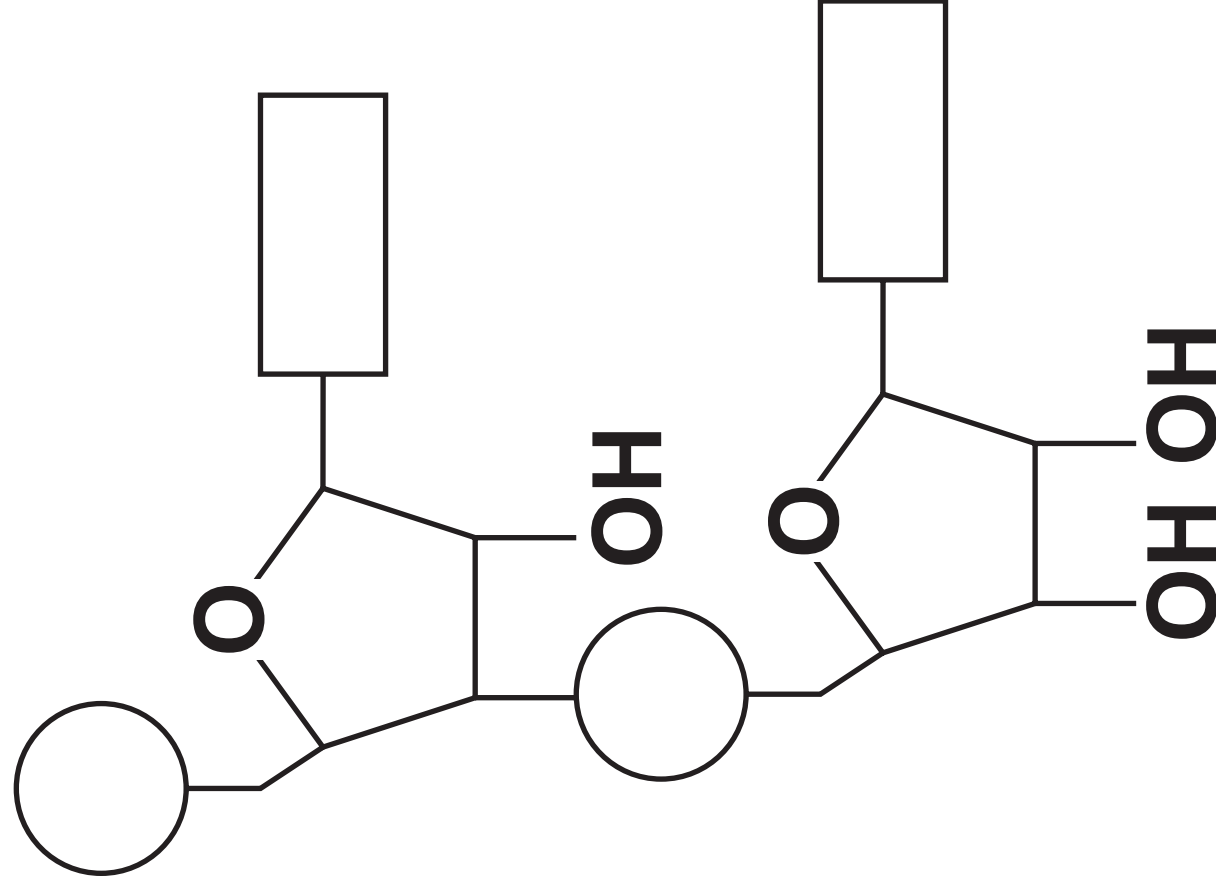
Clotting / a.u.



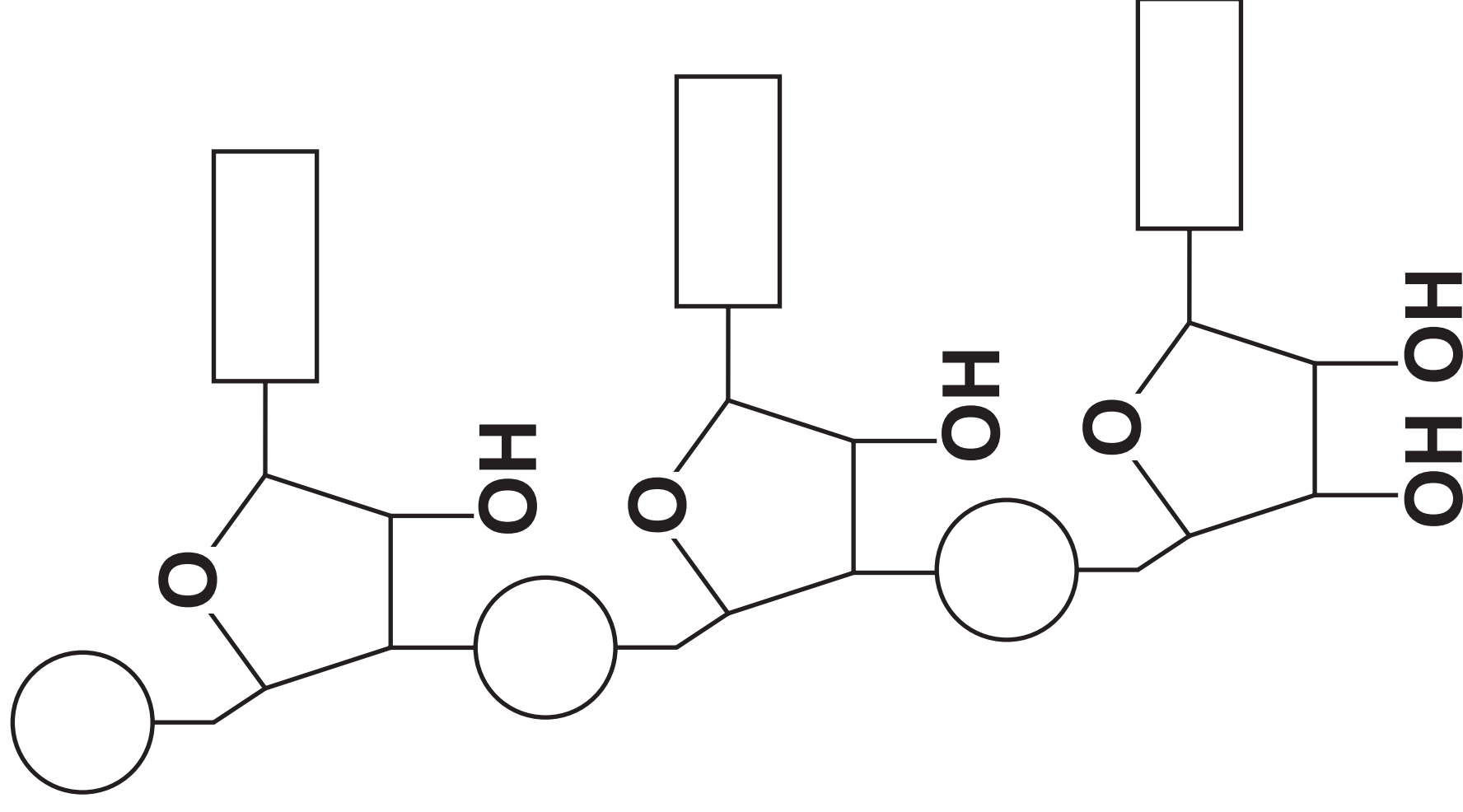
Question 4(a)

9

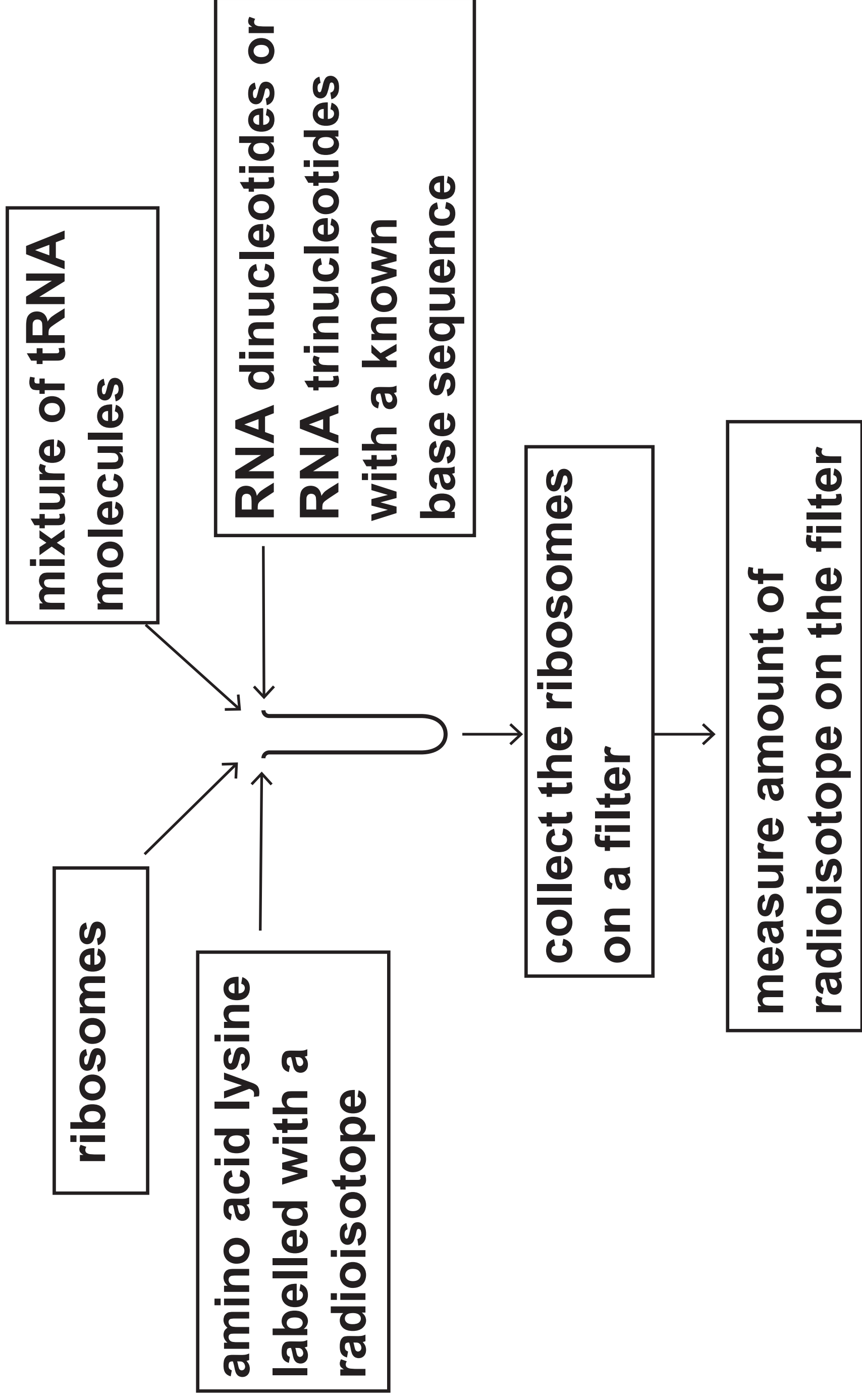
RNA dinucleotide



RNA trinucleotide



Question 4(b)



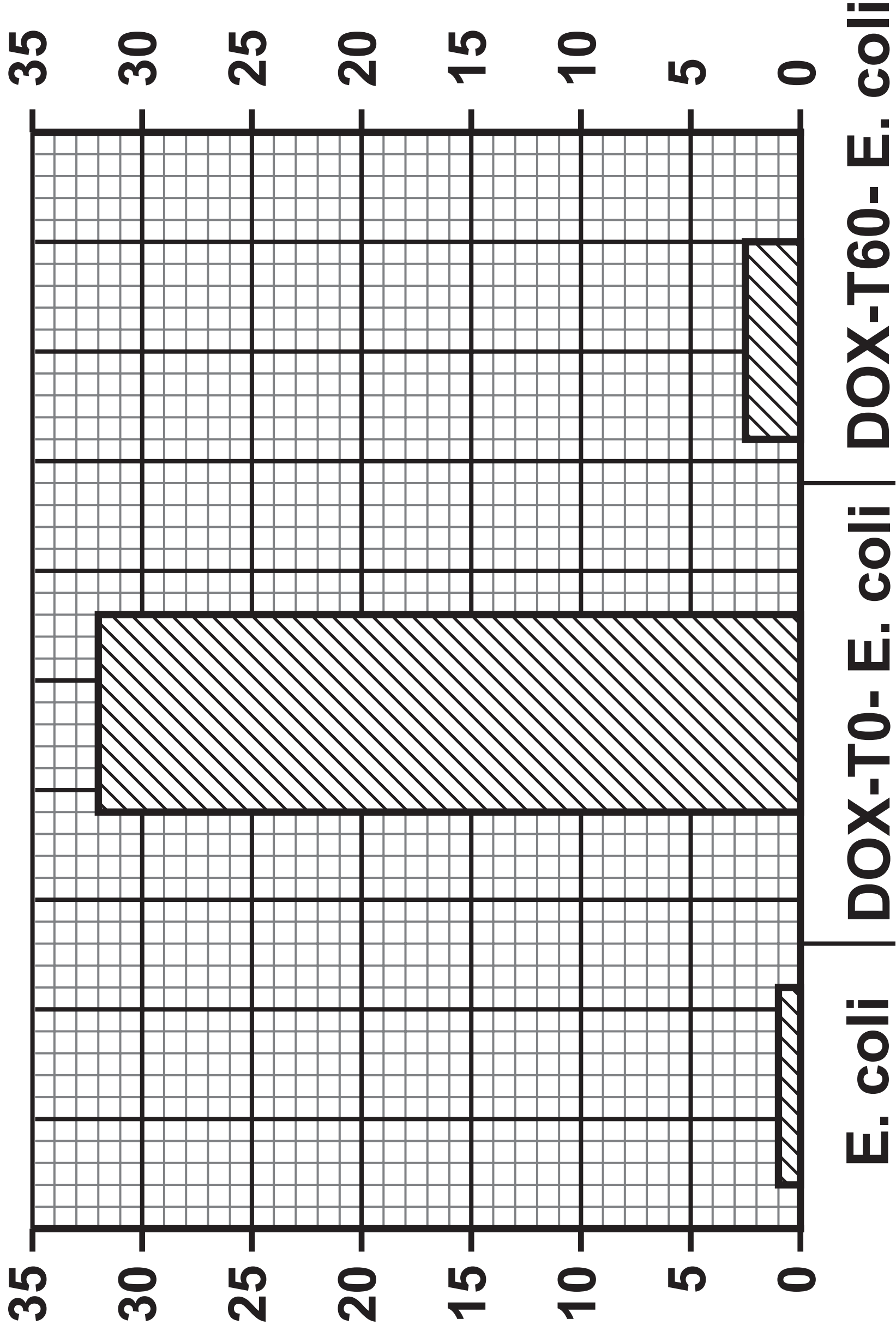
Question 4(b)(ii)

RNA dinucleotide or trinucleotide used		Presence of tRNA with radioactive lysine on the filter
Trinucleotide	AAA	Yes
	AAG	Yes
	GAA	No
Dinucleotide	AA	No
	AG	No
	GA	No
	GG	No

Question 5(b)

Minimum concentration of

antibiotic / a.u.

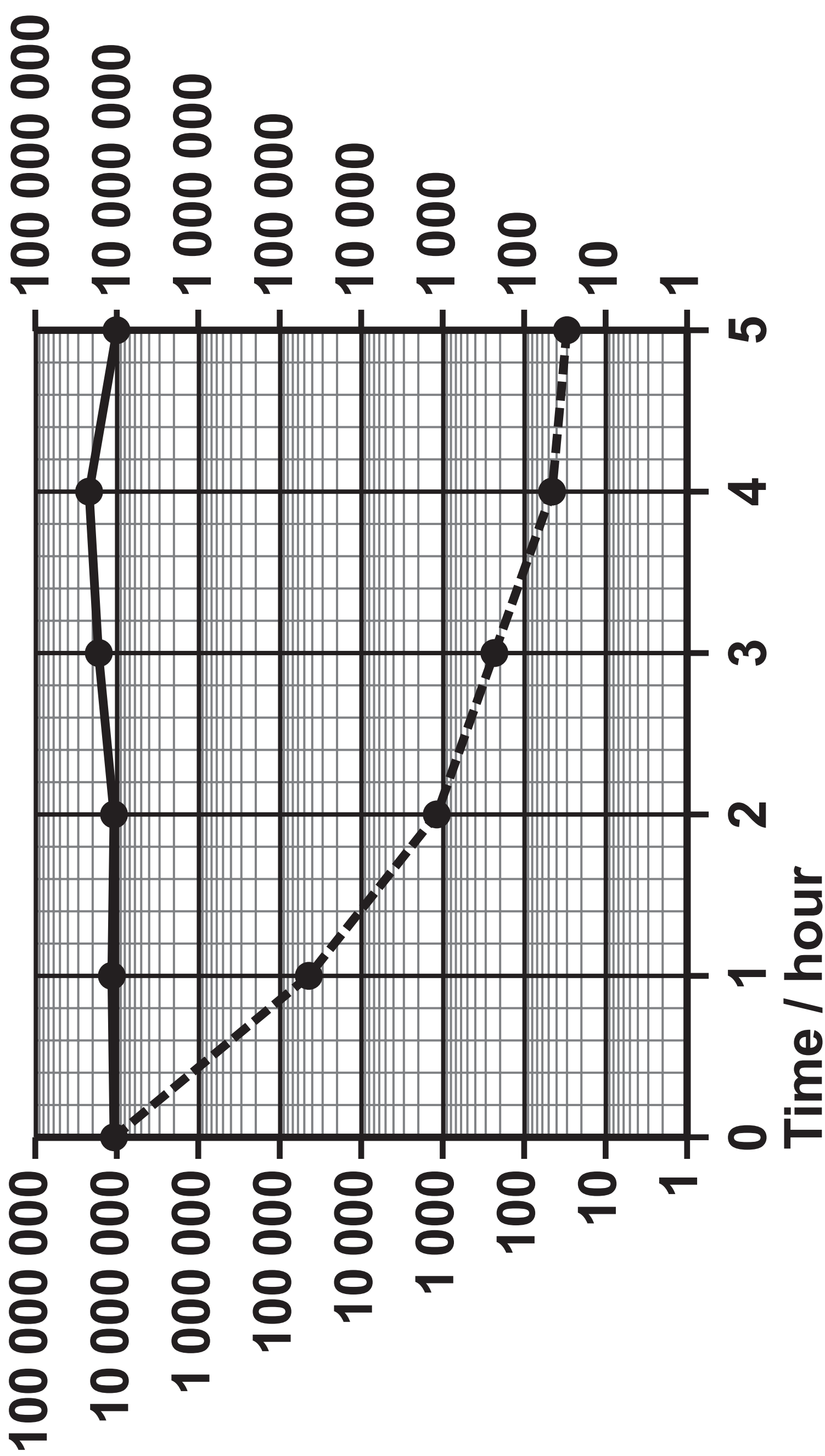


KEY

— Tetracycline

- - - Streptomycin

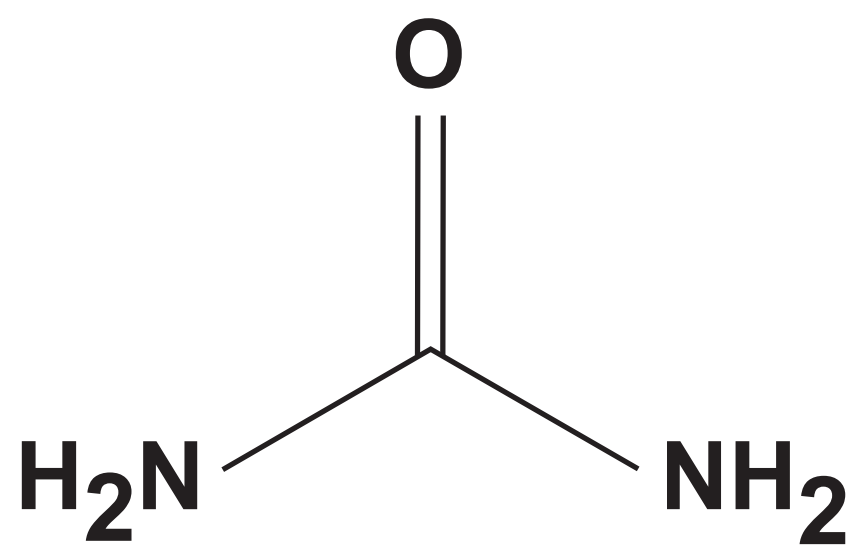
Number of living cells per cm³



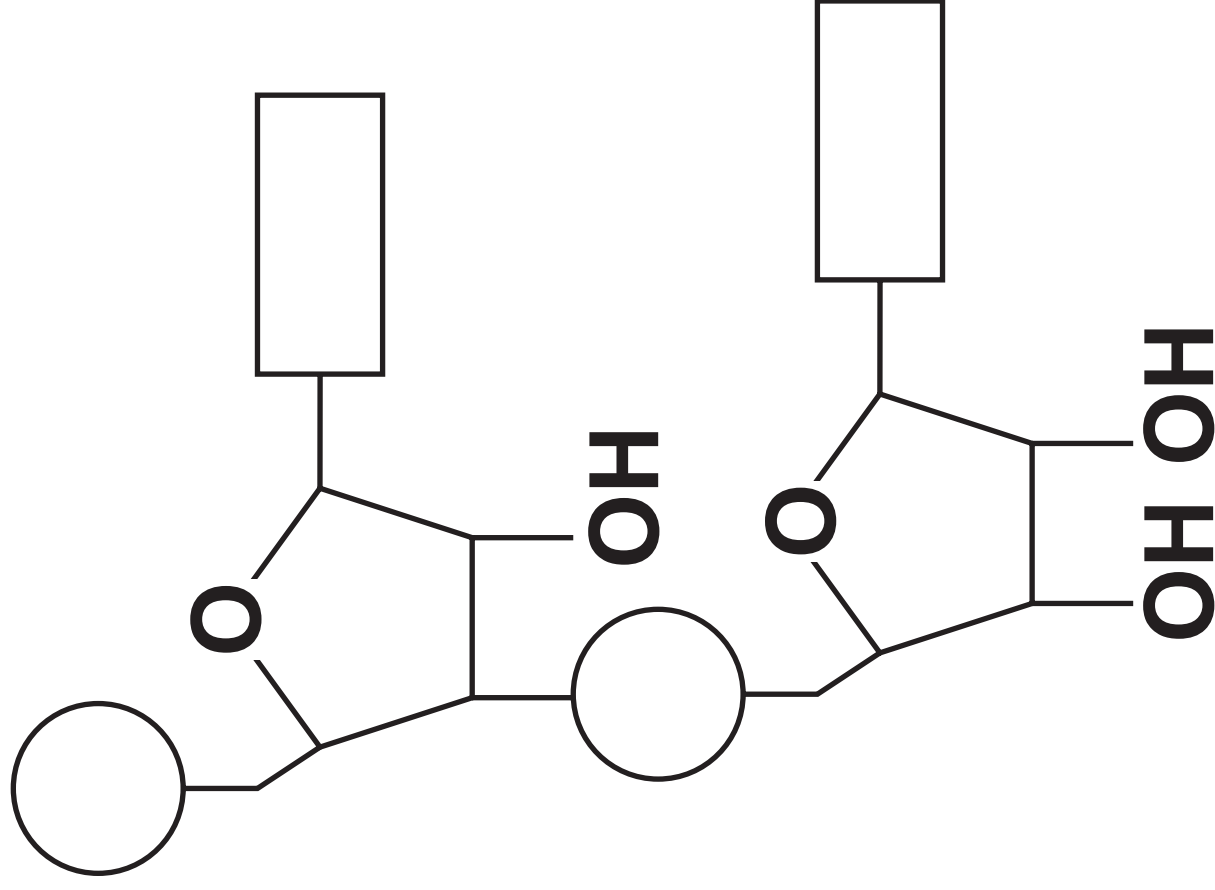
Question 6



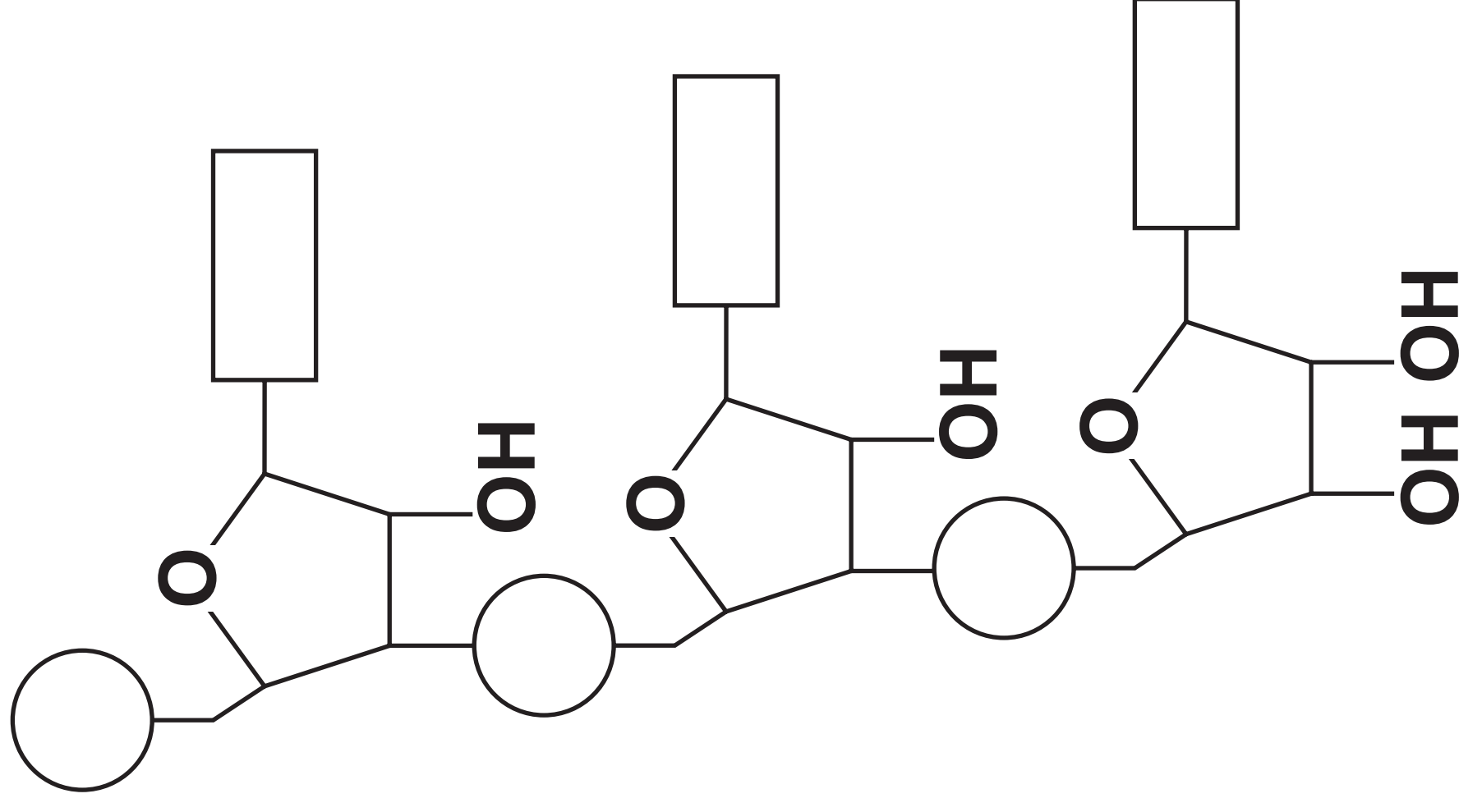
Question 8(f)



RNA dinucleotide



RNA trinucleotide



Question 6

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