

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

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INSTRUCTIONS

There may be spare copies of some diagrams.

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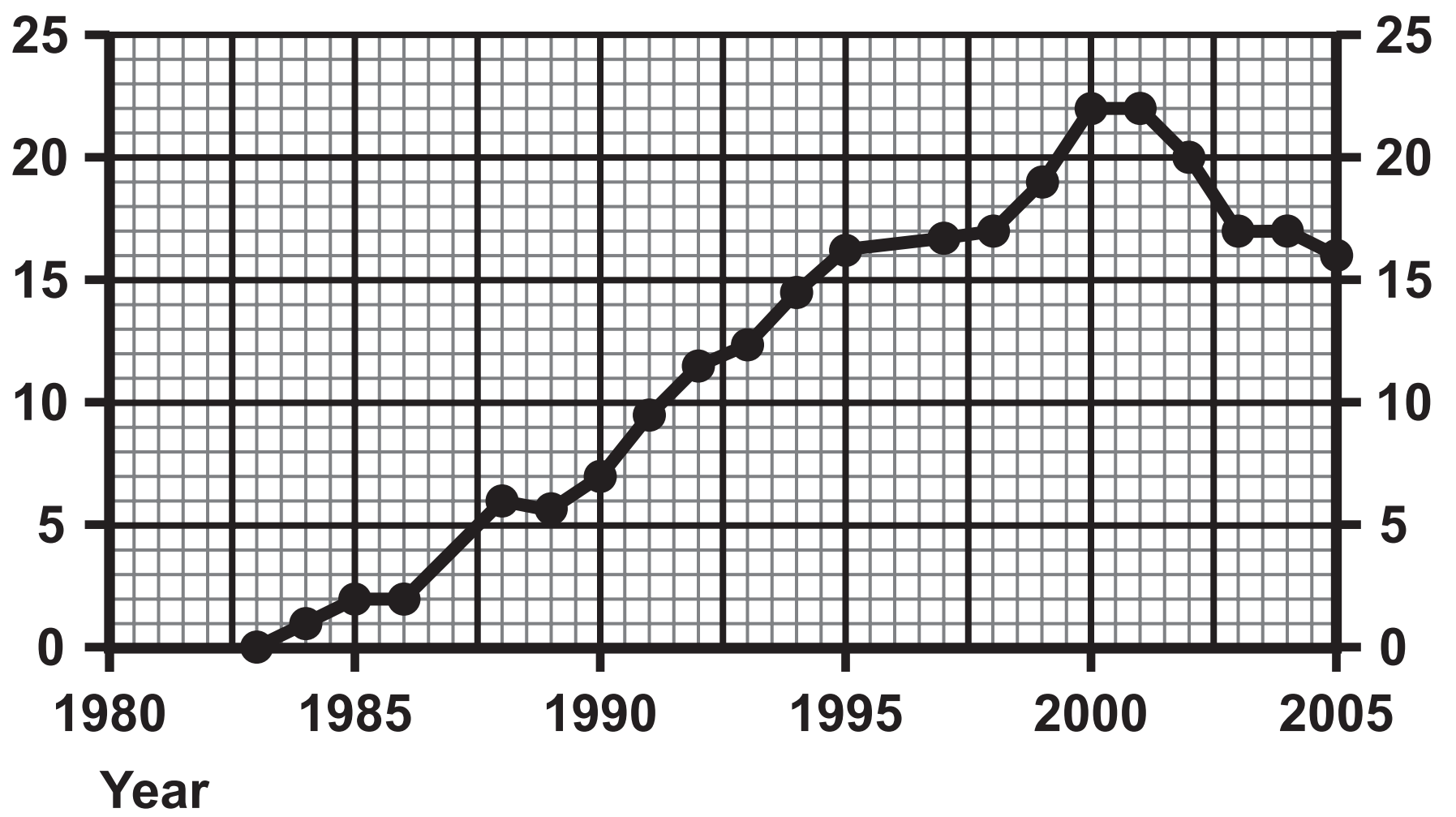
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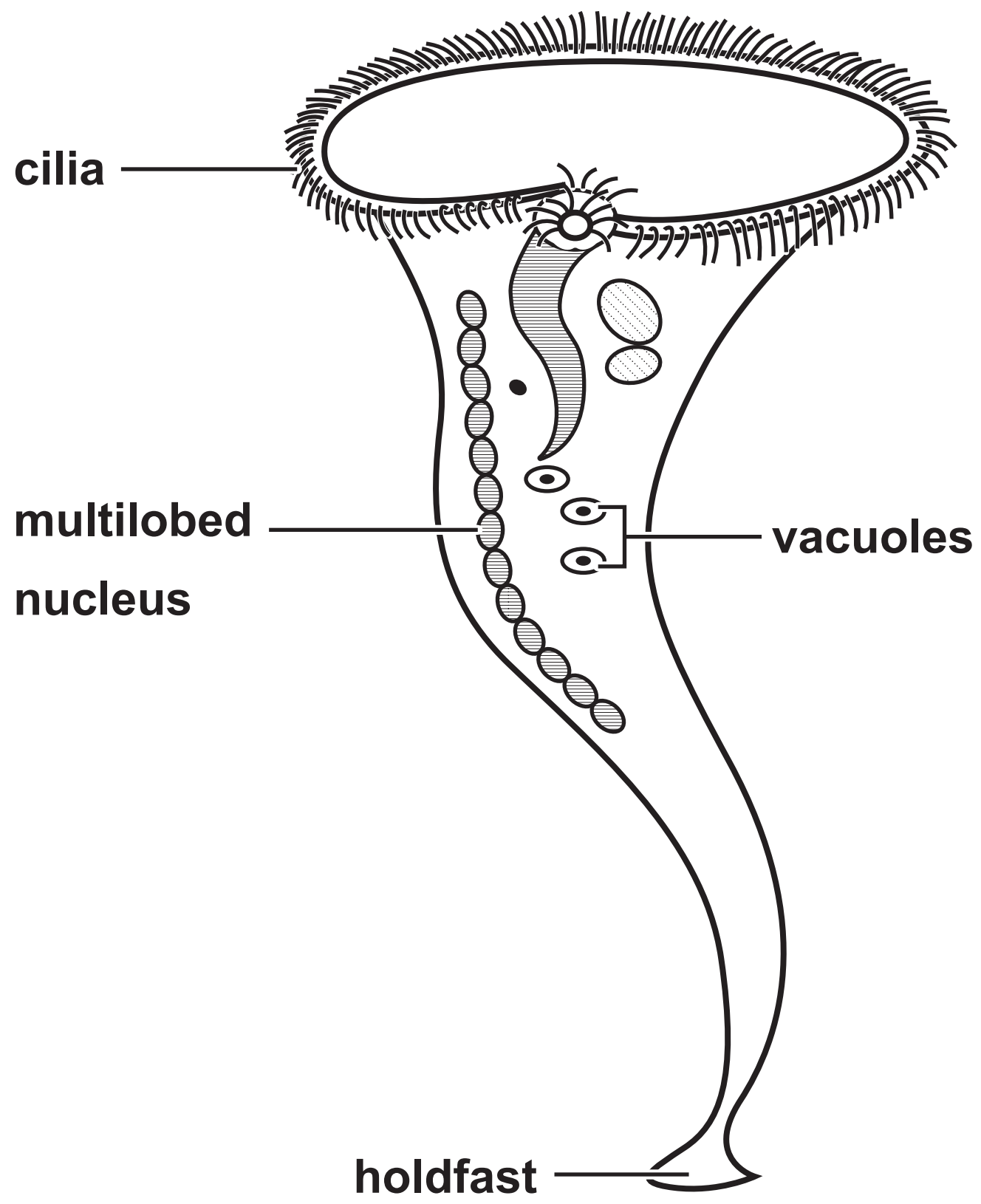
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Question 1(a)

Mean species richness

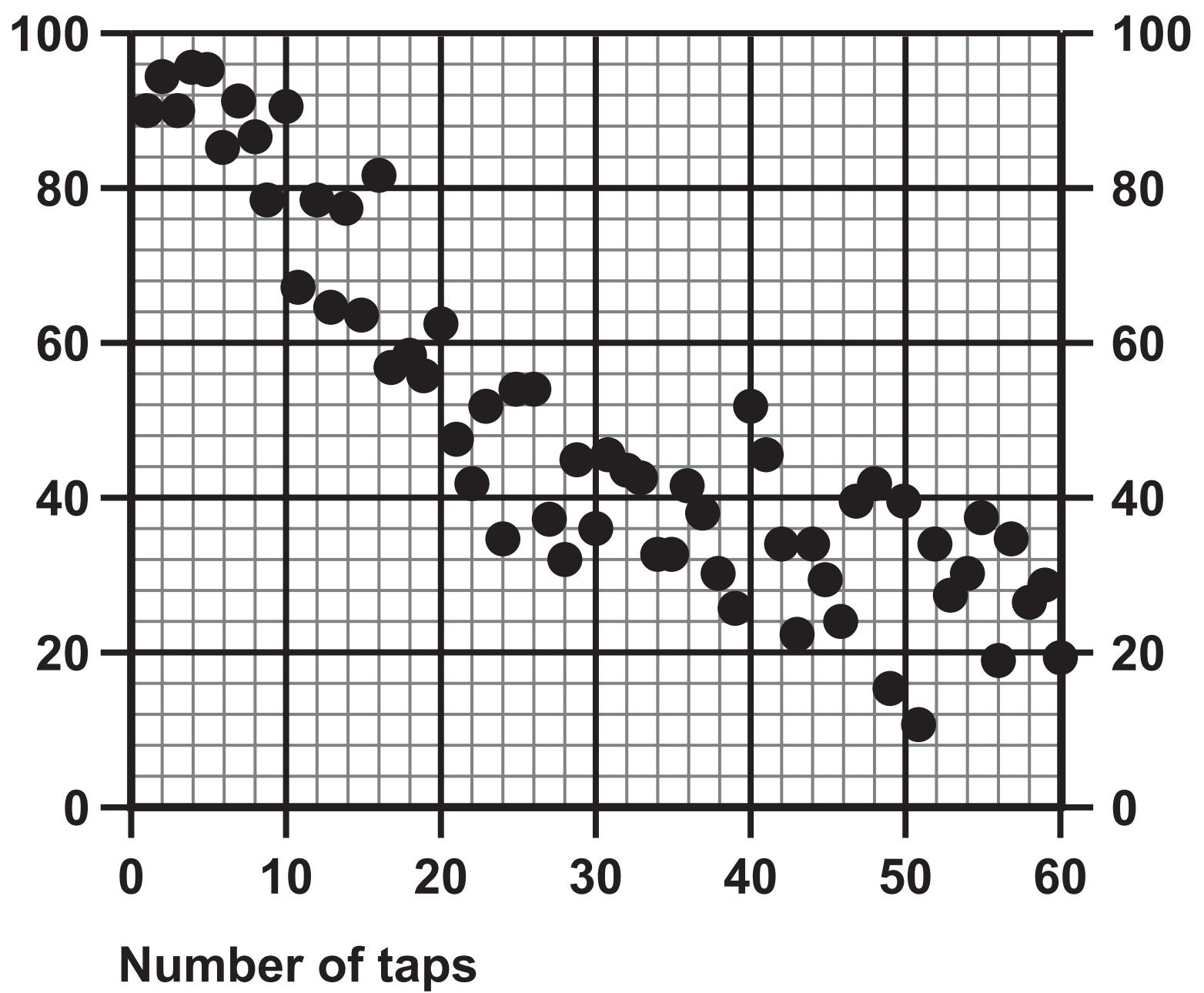


Question 2

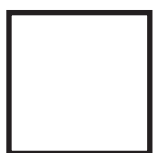
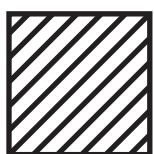
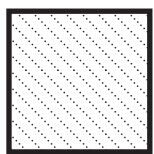
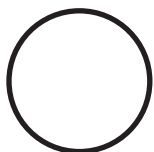
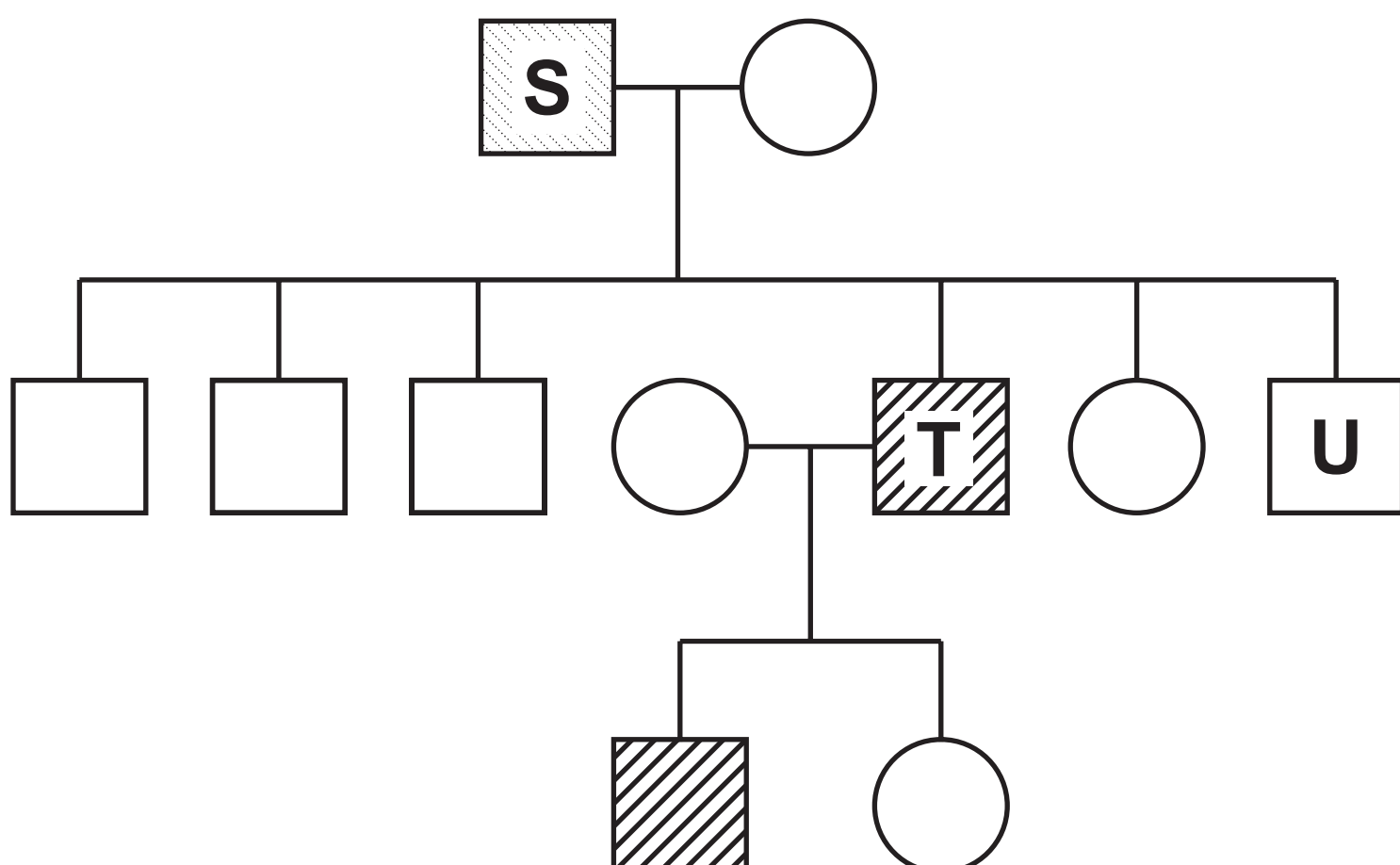


Question 2(b)

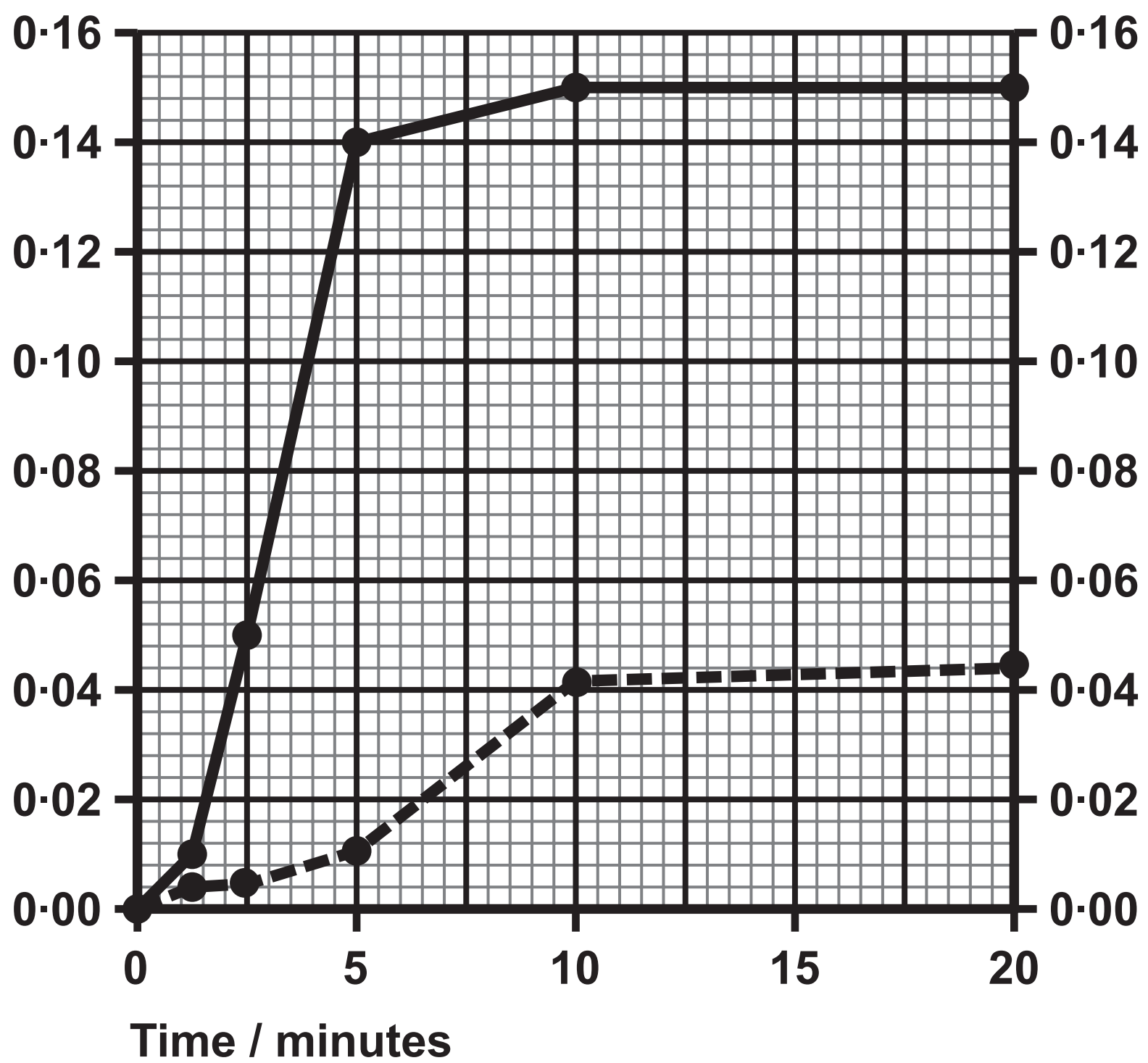
**Percentage of Stentors
contracting (%)**



Question 3(b)

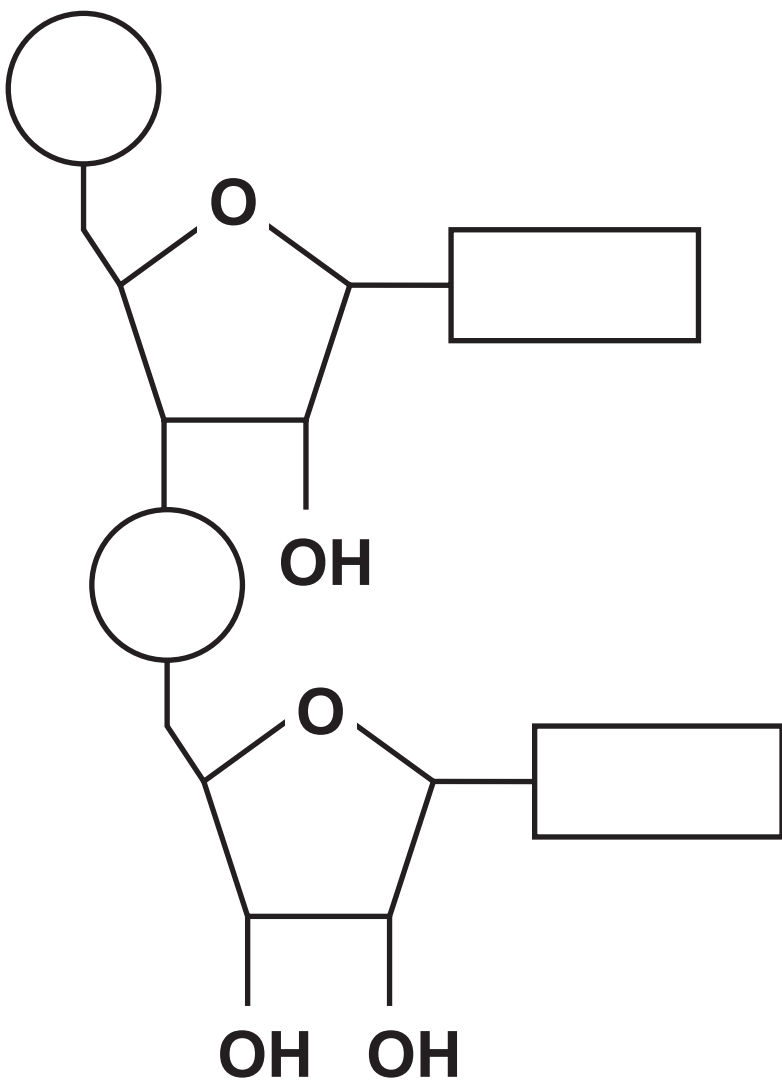
KEY**Unaffected male****Affected male****Dead male (unknown phenotype)****Unaffected female**

Question 3(b)(iii)

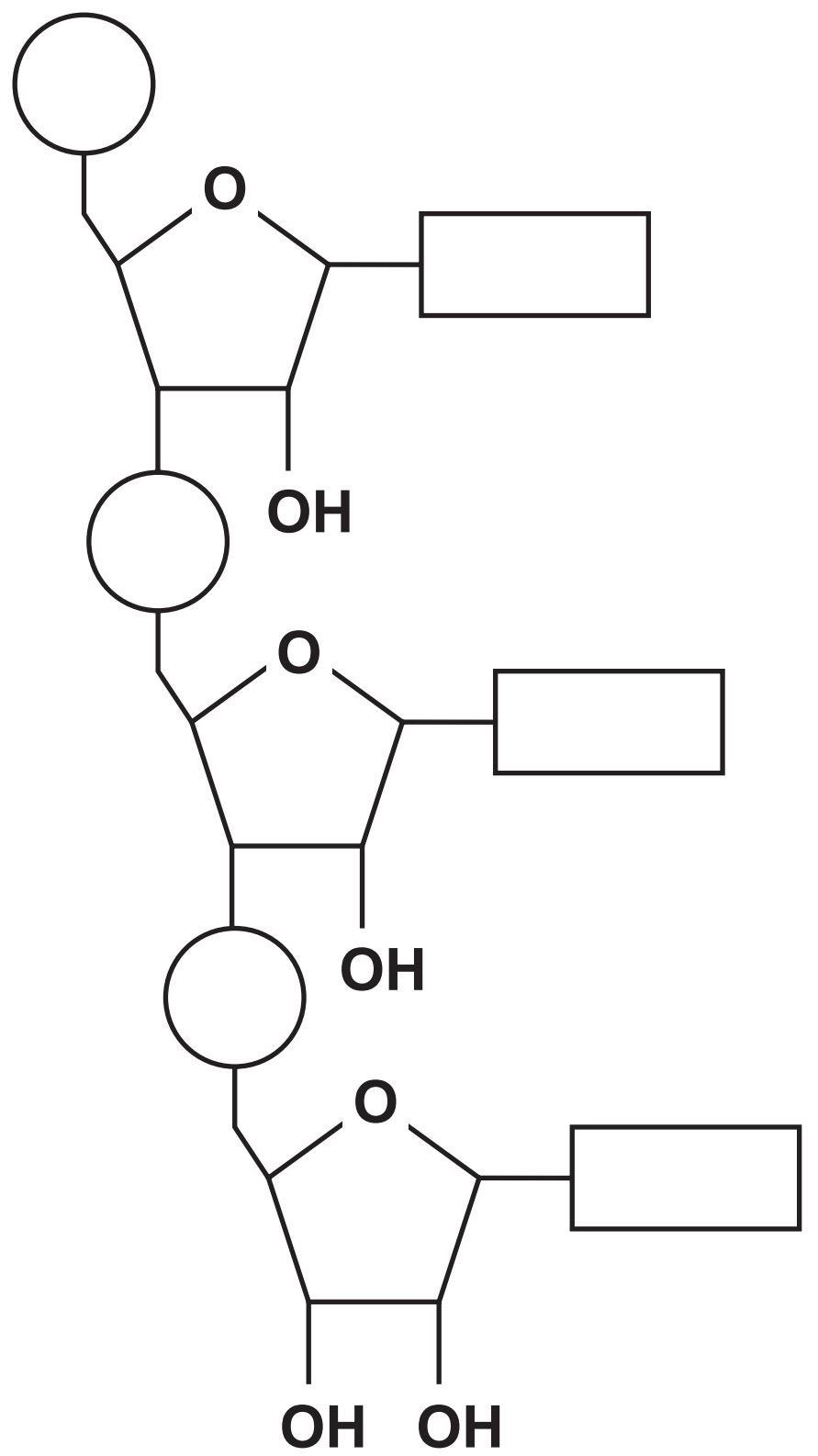
KEY**—— Individual U****- - - - Individual T****Clotting / a.u.**

Question 4(a)

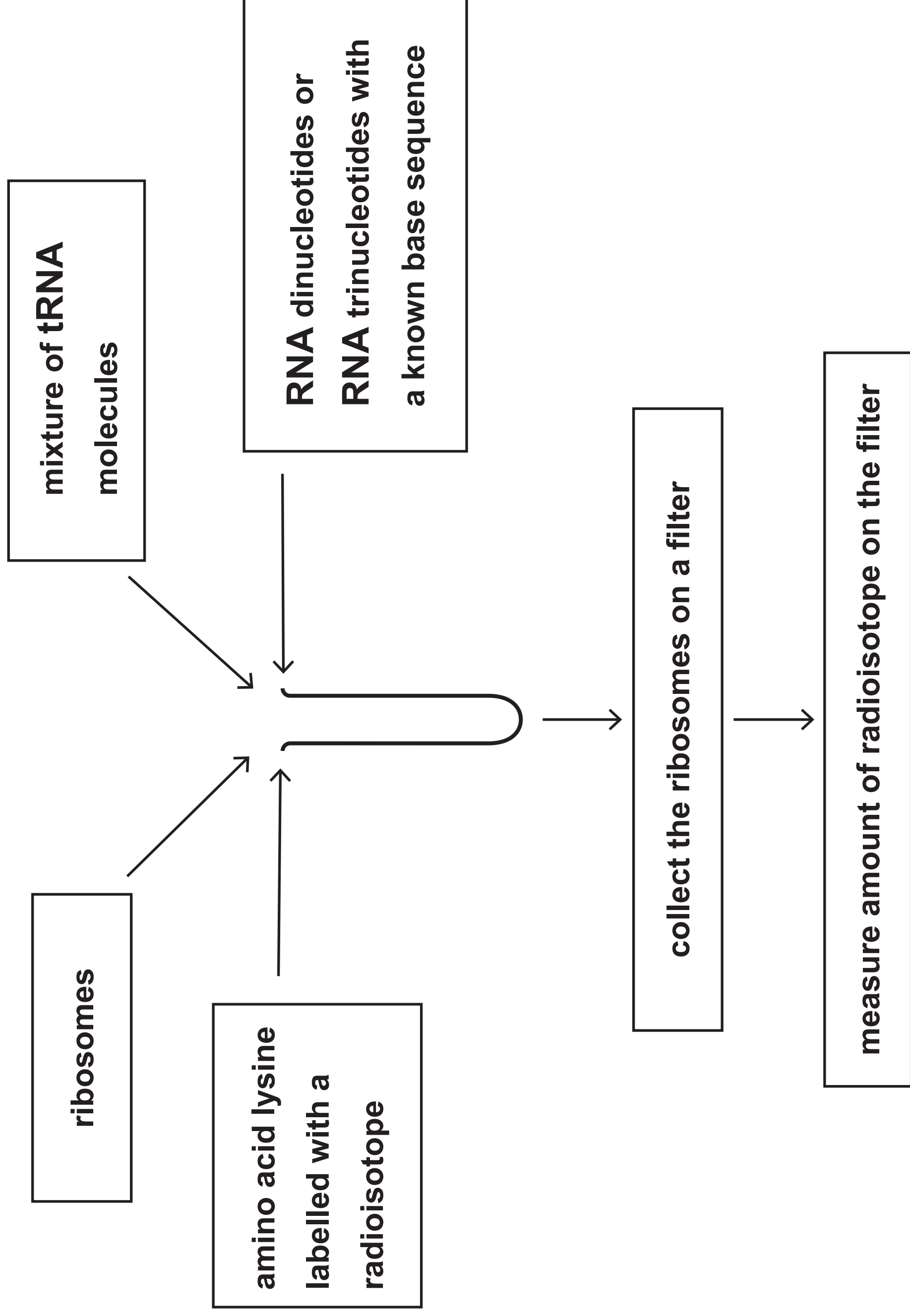
RNA dinucleotide



RNA trinucleotide



Question 4(b)

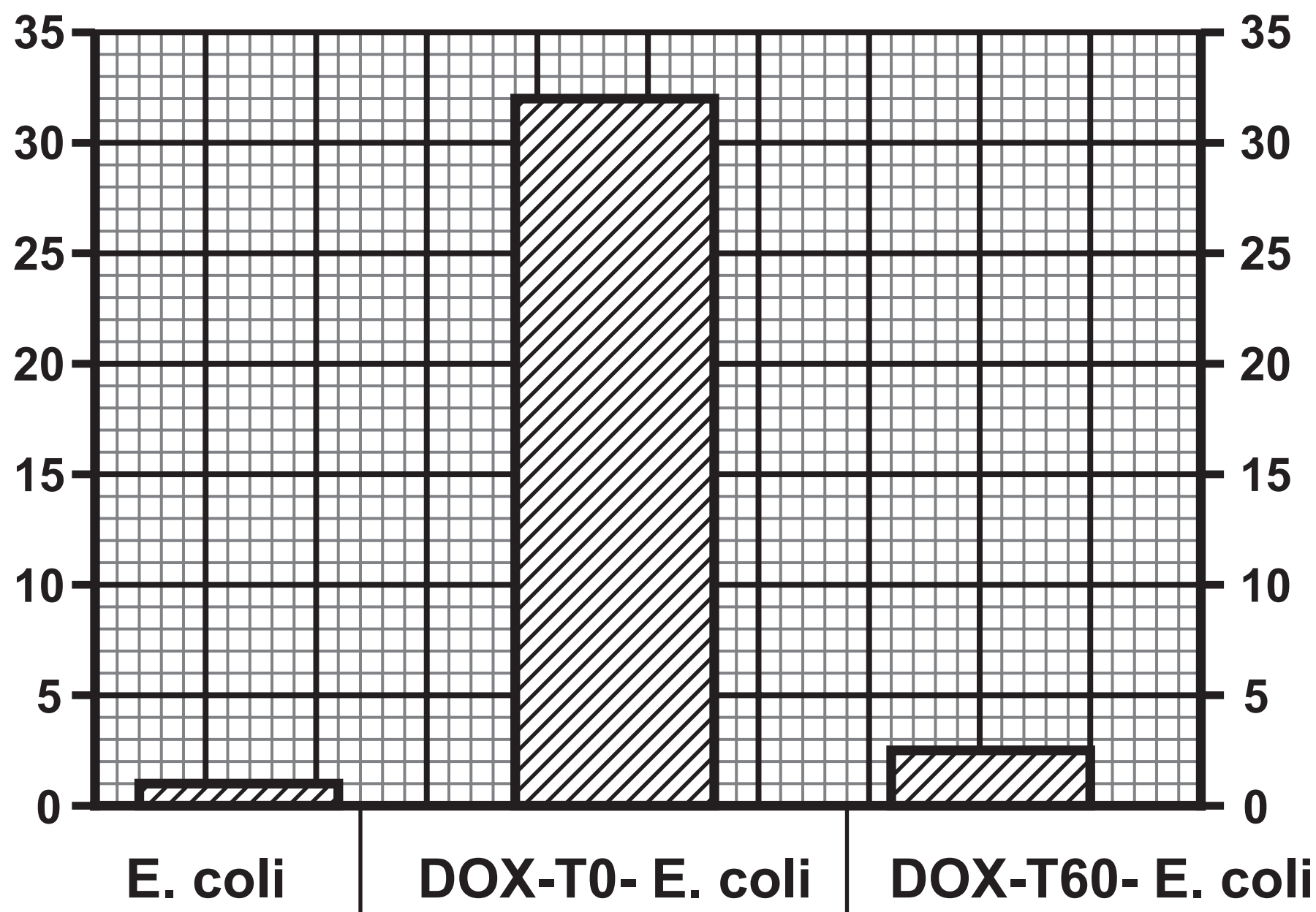


Question 4(b)(ii)

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.



Question 5(c)

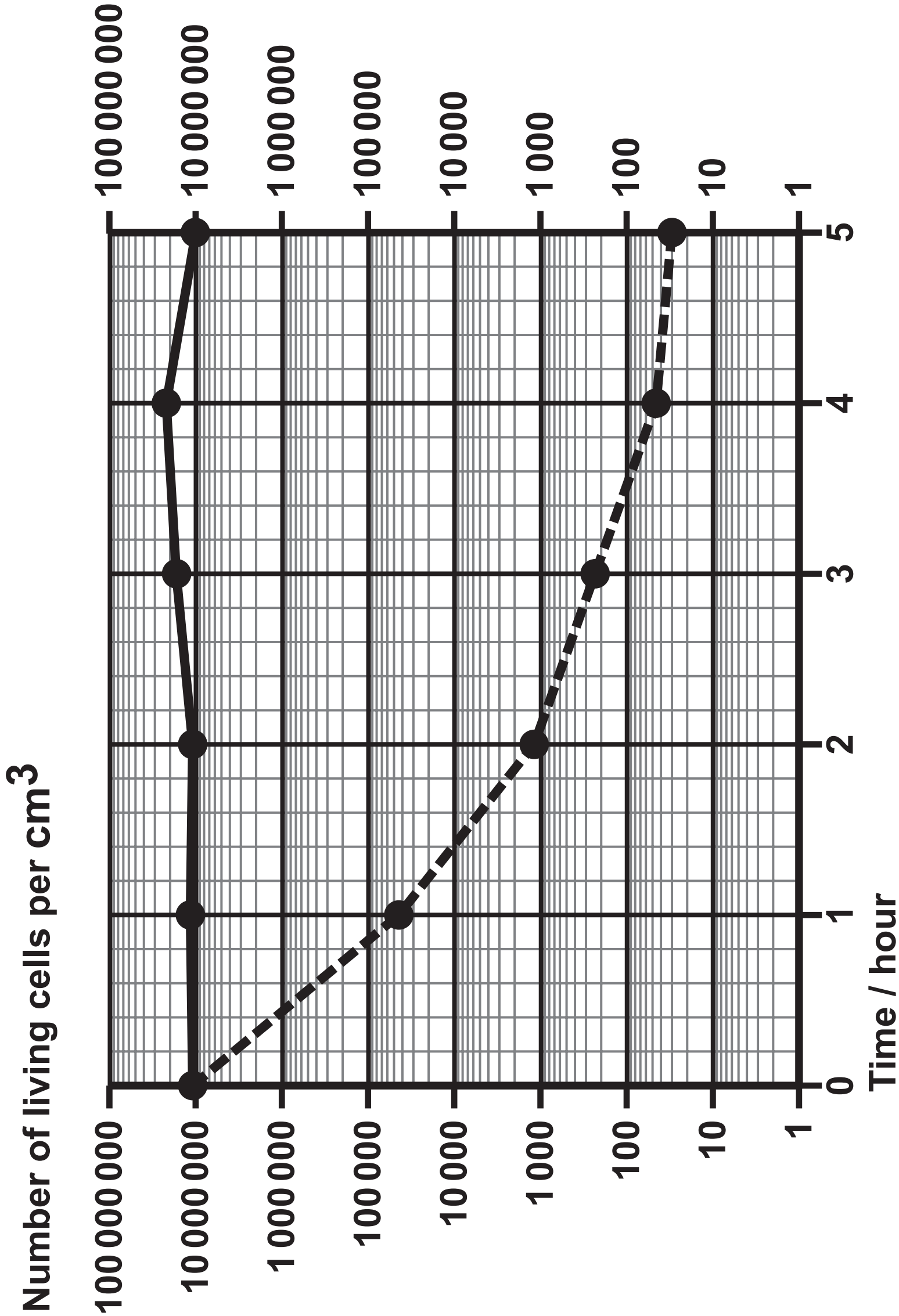
KEY



Tetracycline



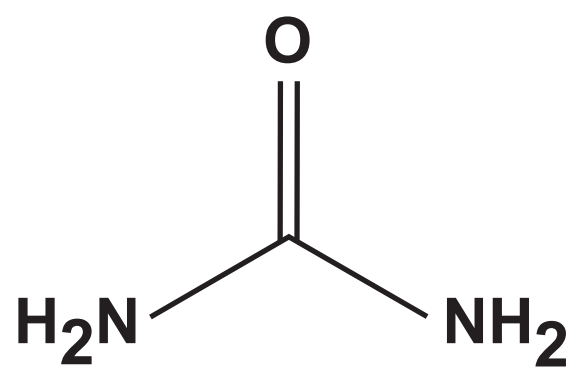
Streptomycin



Question 6

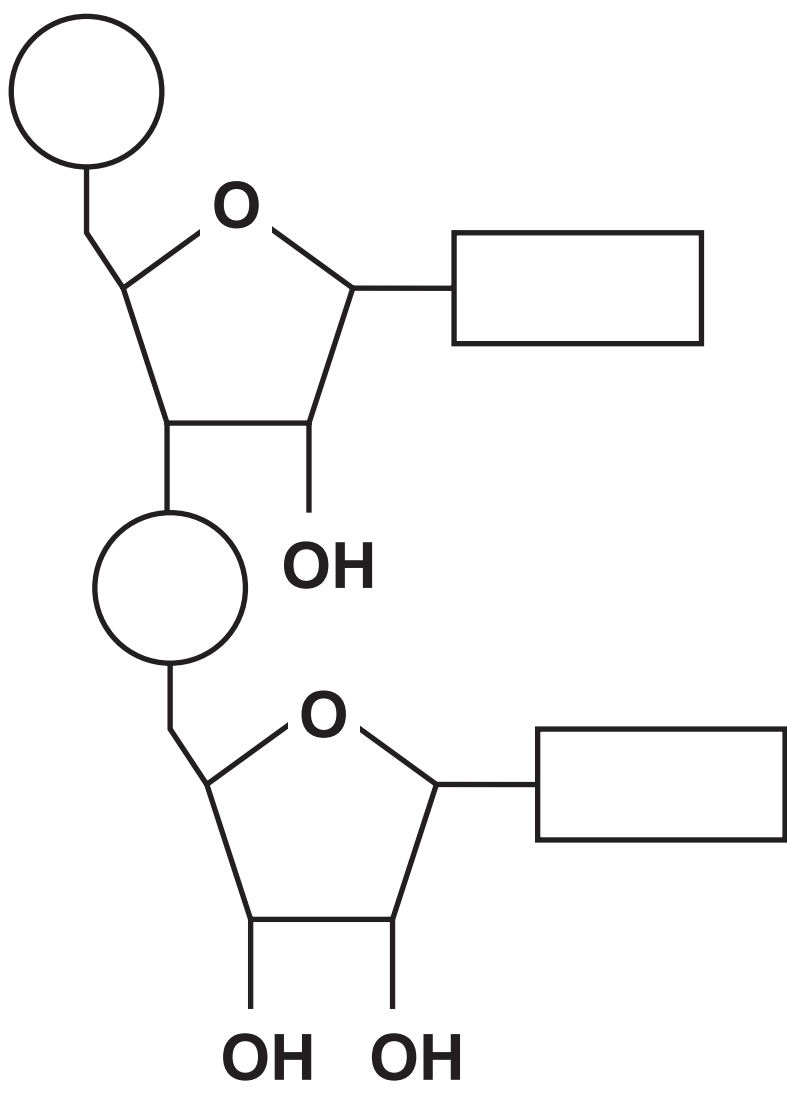


Question 8(f)

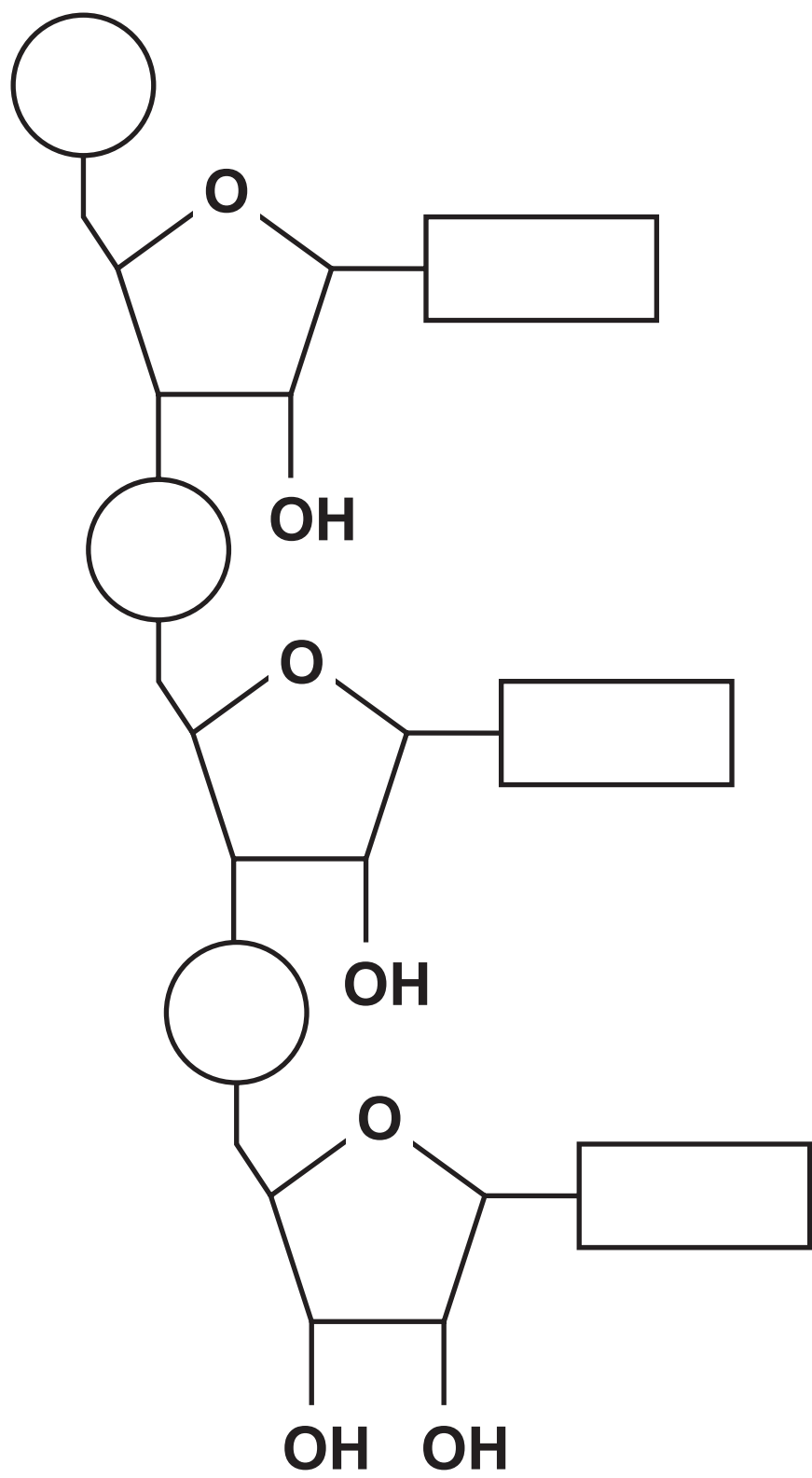


Question 4(a) – Spare copy

RNA dinucleotide



RNA trinucleotide



Question 6

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