

Chemistry
UNIT: 4CH1
PAPER: 2CR

Tuesday 11 June 2024 – Morning

Time: 1 hour 15 minutes

Diagram Booklet

THIS DIAGRAM BOOKLET MUST BE RETURNED WITH THE QUESTION PAPER 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 in case you need them.

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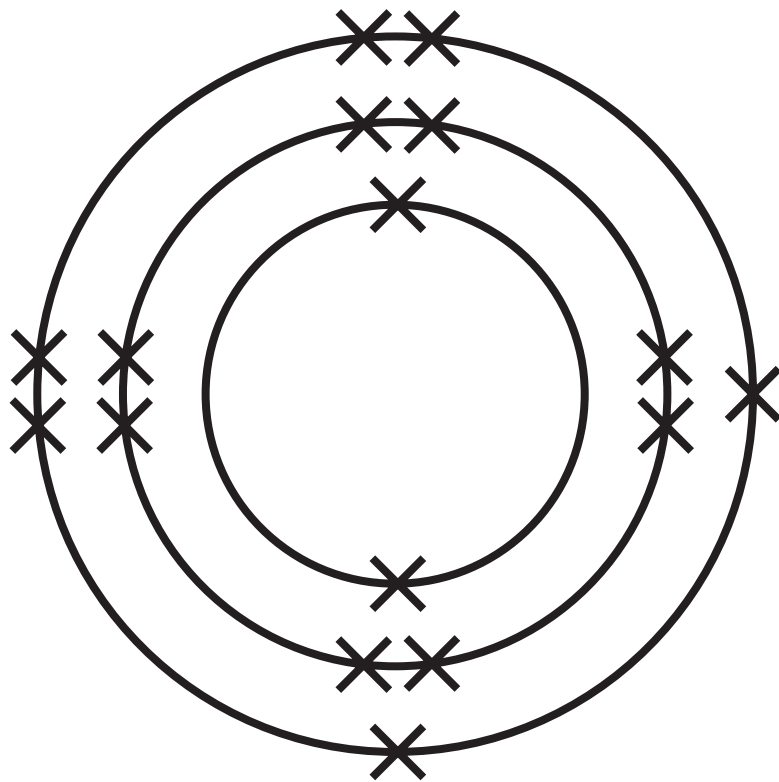
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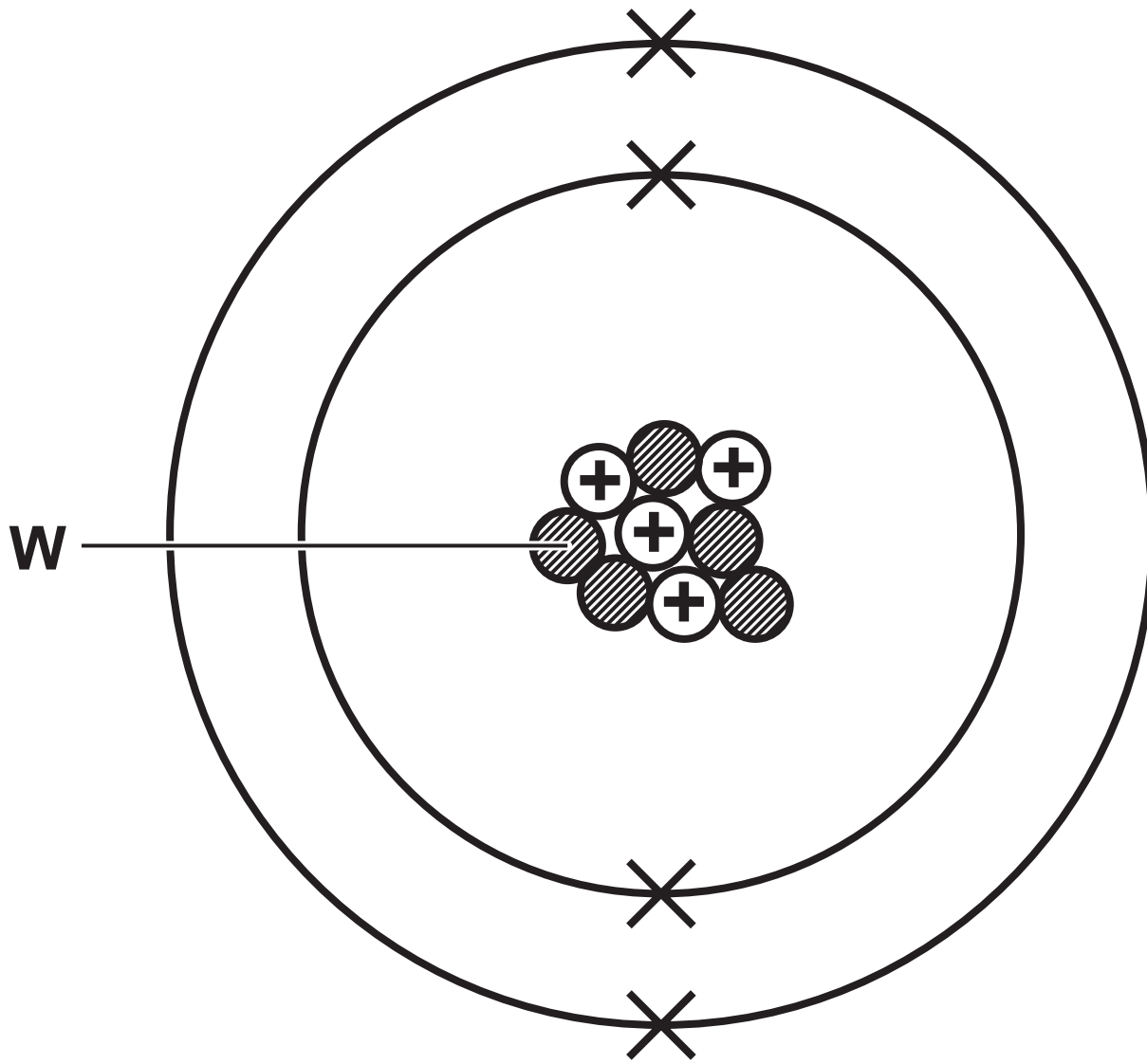
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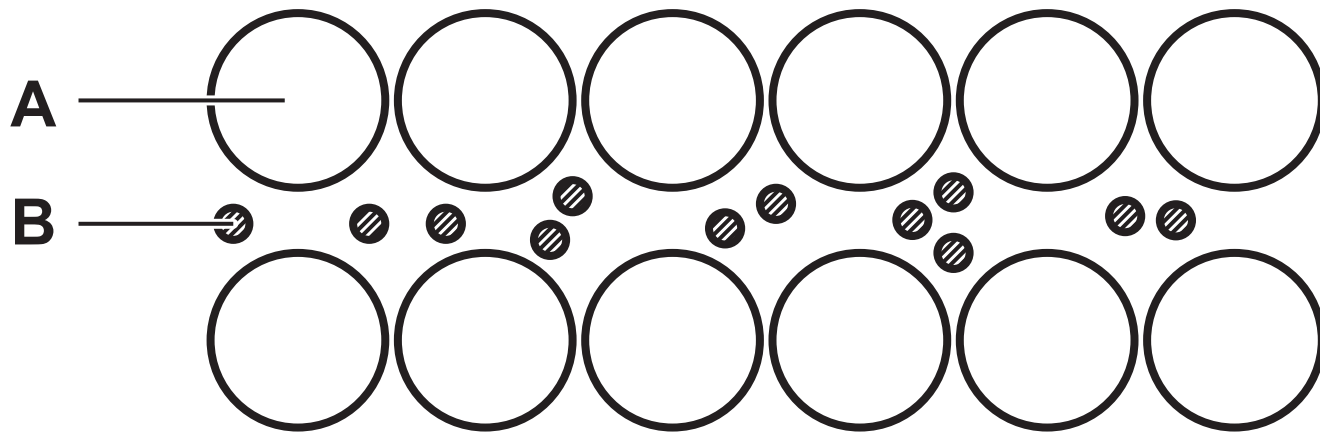
Question 1(a)



Question 2(a)



Question 3(a)(i)



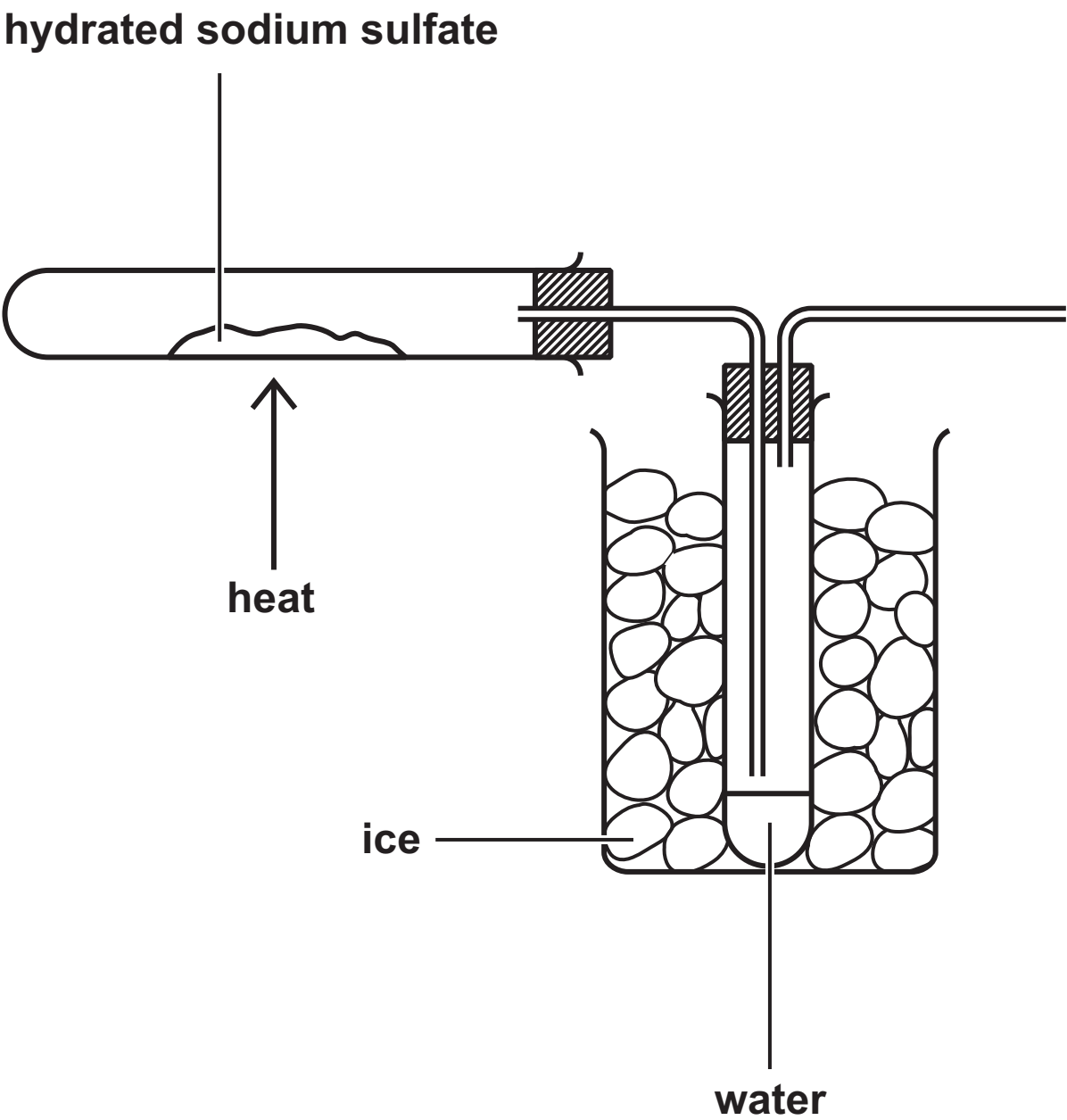
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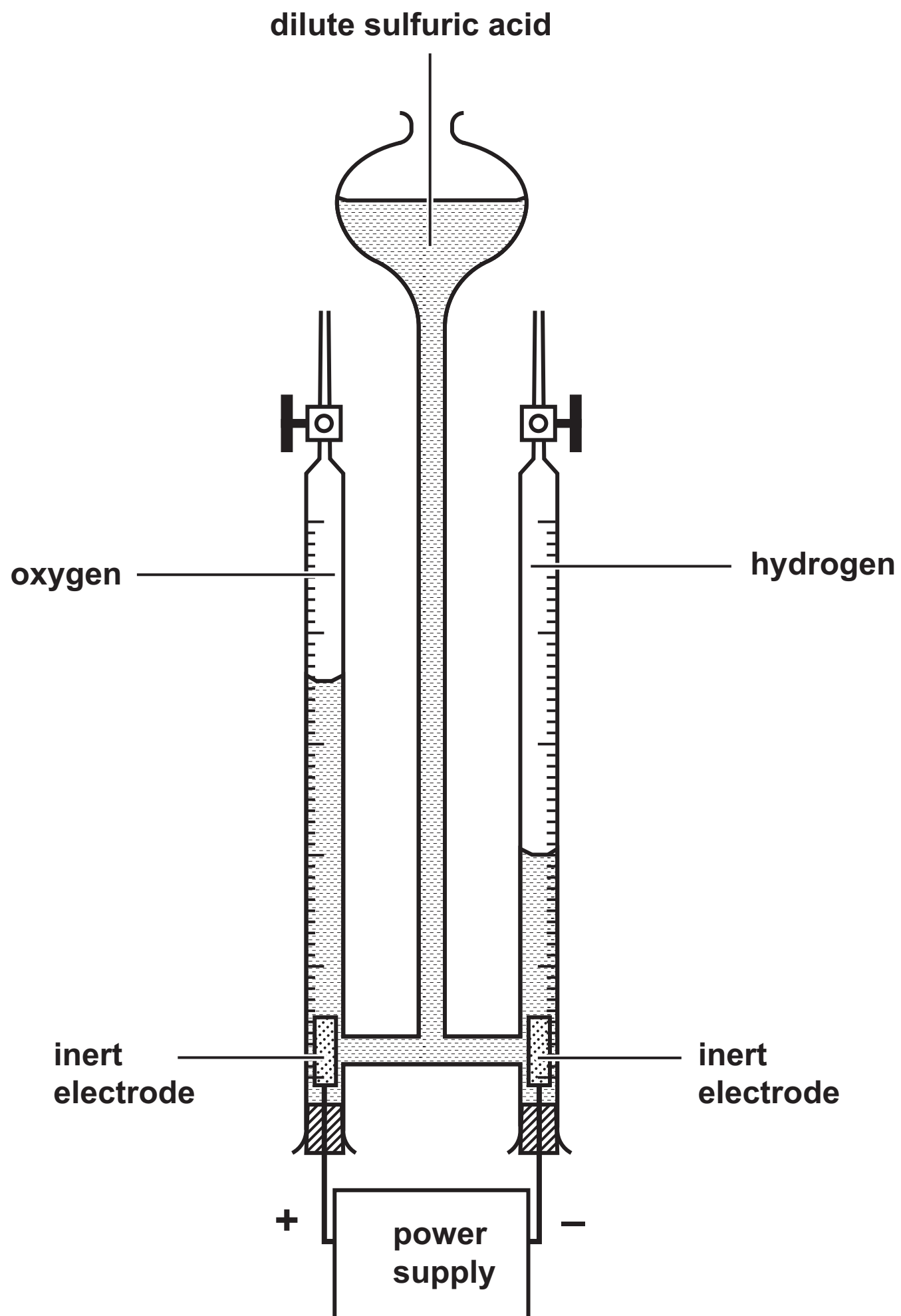


Question 5(c)

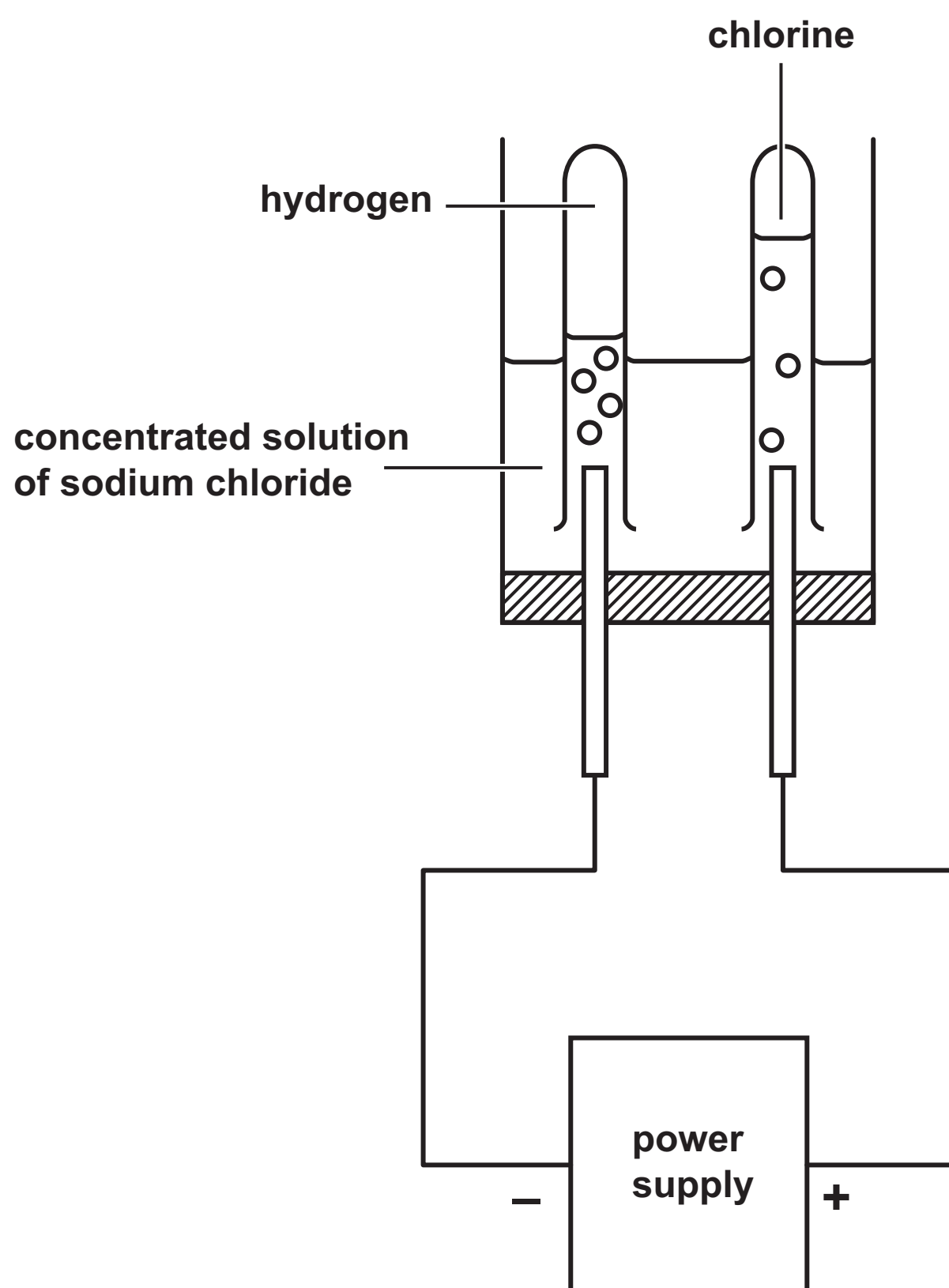


mass of empty test tube in g	25.12
mass of test tube and $\text{Na}_2\text{SO}_4 \cdot x\text{H}_2\text{O}$ in g	31.56
mass of test tube and Na_2SO_4 in g	27.96

Question 6(a)



Question 6(b)



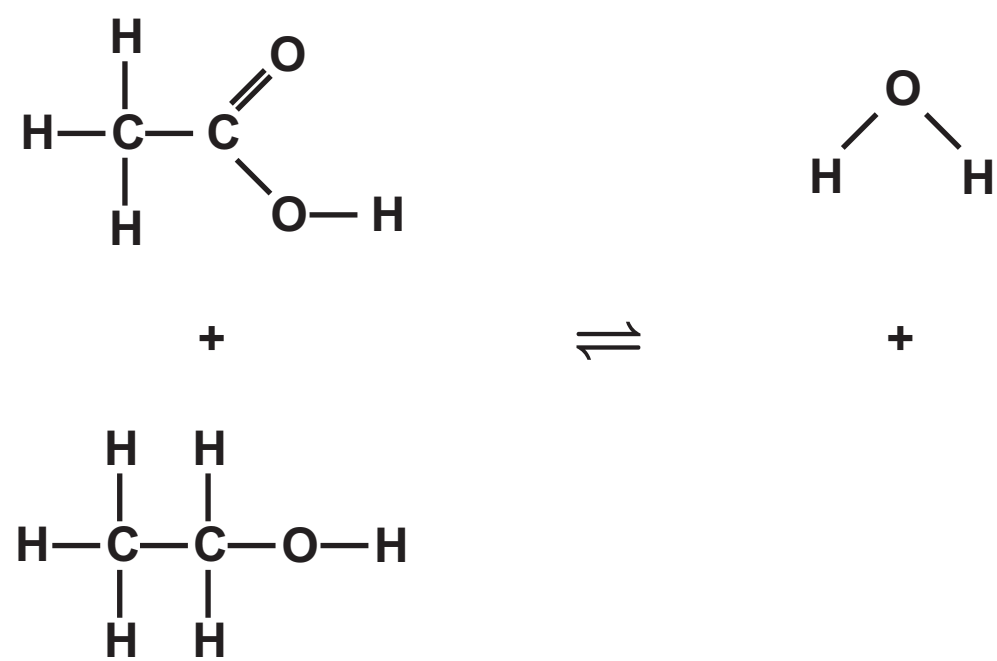
Question 7(b)

Bond	Bond energy in kJ/mol
C—H	414
C=C	614
O—H	463
C—C	346
C—O	358



Energy

Question 7(c)(i)



ester A

Question 3(b)(i)

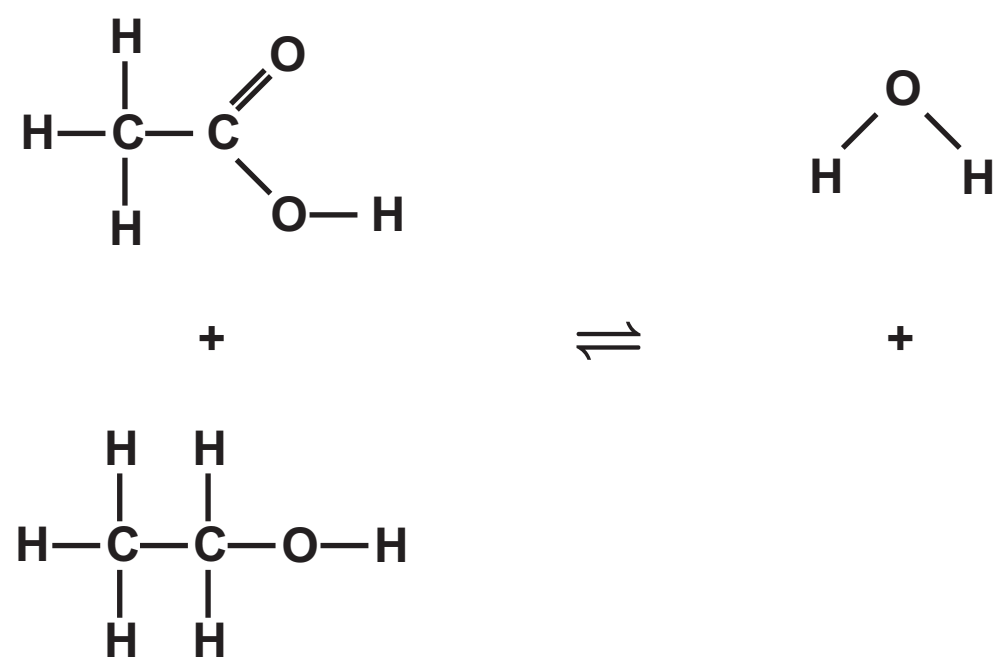


Question 4(c)(i)





Question 7(c)(i)



ester A