

**Paper Reference(s) 4CH1/2C**  
**Pearson Edexcel International GCSE (9–1)**

**Chemistry**  
**UNIT: 4CH1**  
**PAPER: 2C**

**Tuesday 13 June 2023 – Morning**

## **Diagram Booklet**

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

<b>Surname</b>					
<b>Other names</b>					
<b>Centre Number</b>					
<b>Candidate Number</b>					

## **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.**

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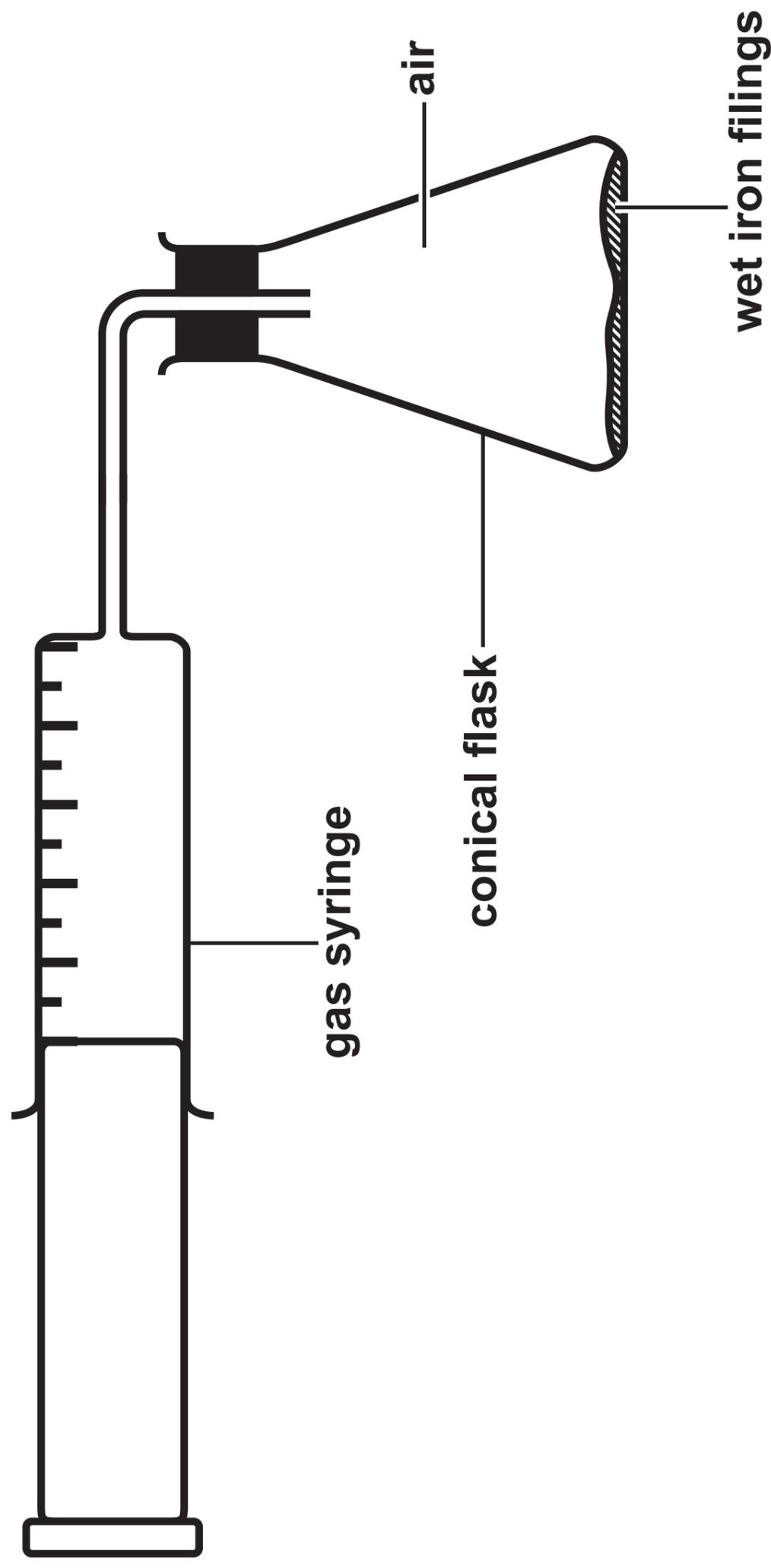
### **Spare Copies**

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Question 2(c)



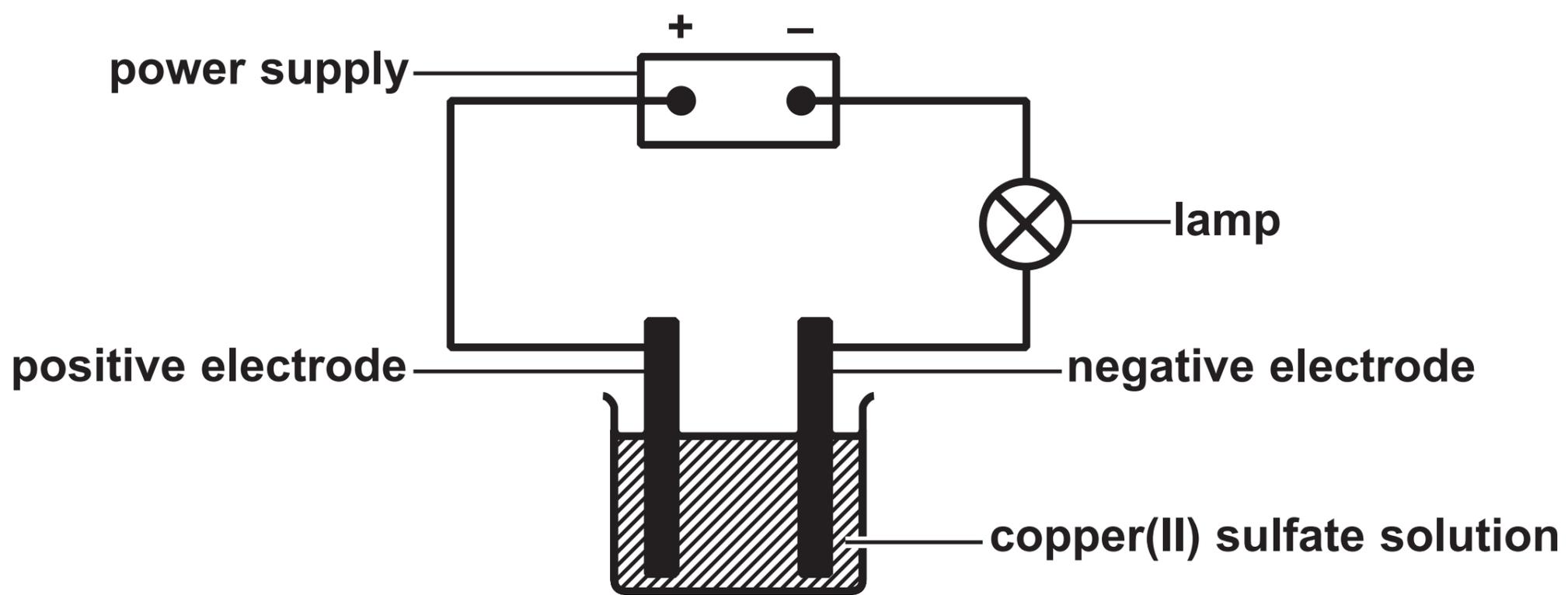
## Question 3(a)



## Question 3(b)

	<b>Hydration</b>	<b>Fermentation</b>
<b>Reagents</b>	ethene and steam	aqueous glucose
<b>Catalyst</b>		enzymes in yeast
<b>Temperature in °C</b>	300	
<b>Pressure in atmospheres</b>		1
<b>Rate of process</b>	fast	slow
<b>Purity of product</b>	pure	impure

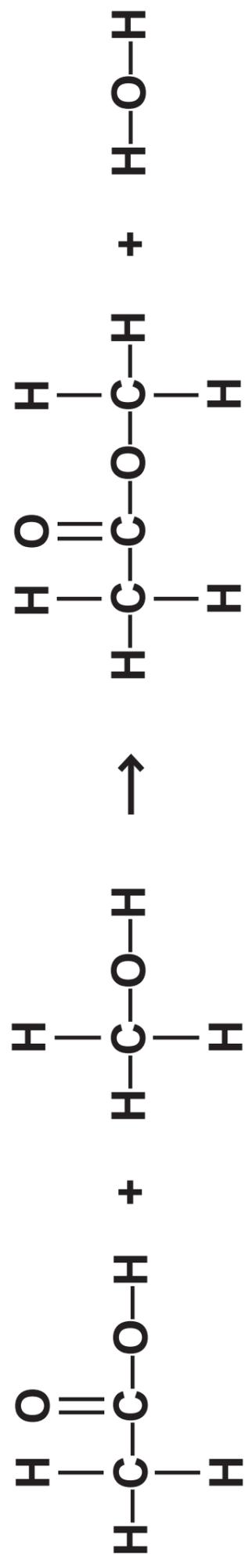
## Question 5



Question 5(d)(ii)



# Question 6



## Question 6(b)

<b>Bond</b>	<b>C—H</b>	<b>C—C</b>	<b>C—O</b>	<b>C=O</b>	<b>O—H</b>
<b>Number of bonds in reactants</b>	6	1	2	1	2
<b>Number of bonds in products</b>	6	1	2	1	2

## Question 3(a)



## Question 3(b)

	<b>Hydration</b>	<b>Fermentation</b>
<b>Reagents</b>	ethene and steam	aqueous glucose
<b>Catalyst</b>		enzymes in yeast
<b>Temperature in °C</b>	300	
<b>Pressure in atmospheres</b>		1
<b>Rate of process</b>	fast	slow
<b>Purity of product</b>	pure	impure

Question 5(d)(ii)

