

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

Chemistry
Paper 2C

Diagram Booklet

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.

**THIS DIAGRAM BOOKLET MUST BE
RETURNED WITH THE QUESTION PAPER
AT THE END OF THE EXAMINATION.**

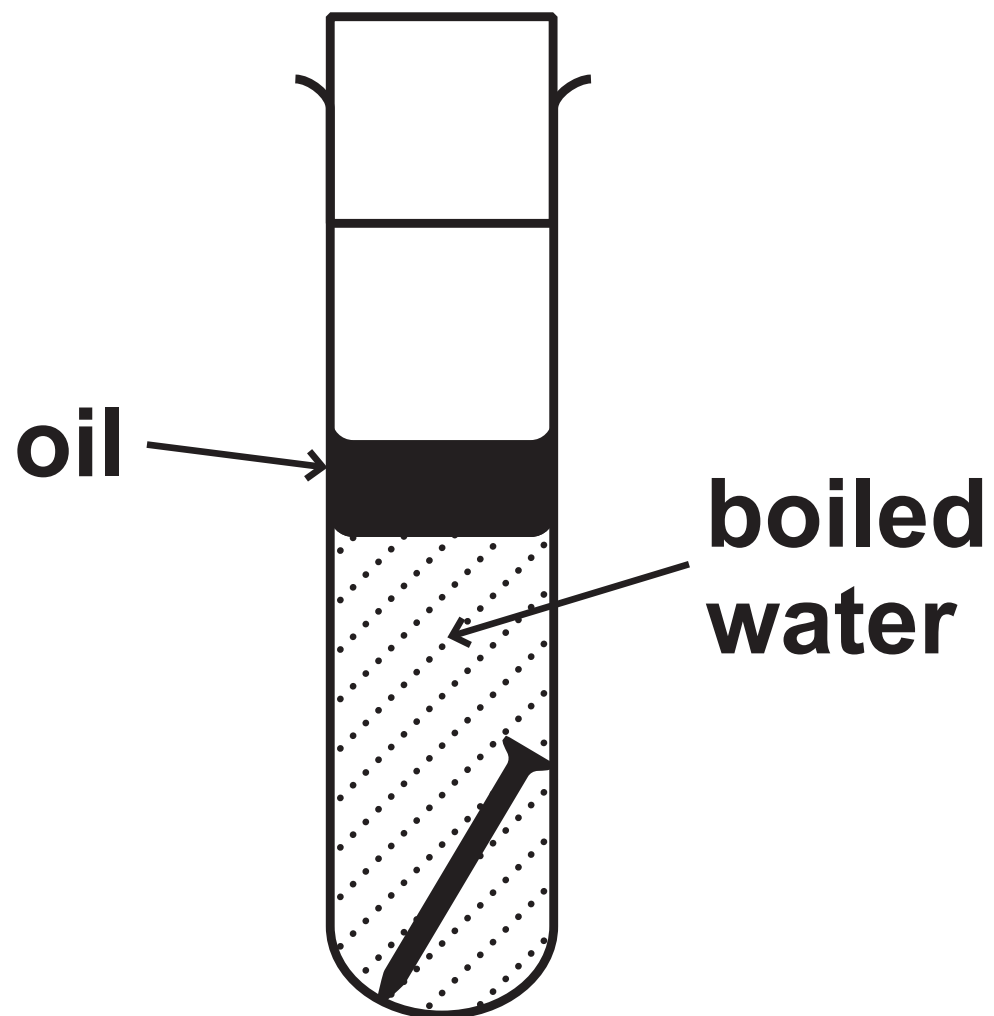
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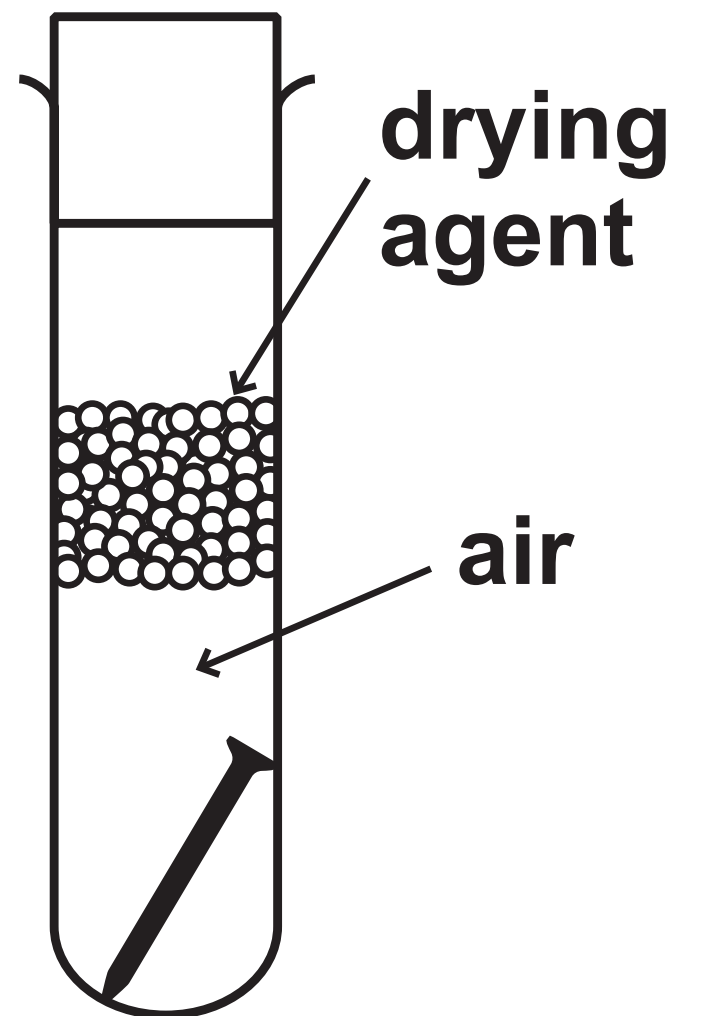
4	Question 2(b)
5	Question 3(a)
6	Question 4(a)
7	Question 4(a) (Spare copy)
8	Question 5(b)(iii)
9	Question 5(b)(iii) (Spare copy)
10	Question 5(c)(i)
11	Question 5(c)(ii)
12	Question 5(c)(ii) (Spare copy)
13	Question 6(a)
14	Question 7(a)
15	Question 7(c)
16	Question 7(c) (Spare copy)
17	Question 7(d)

Question 2(b)

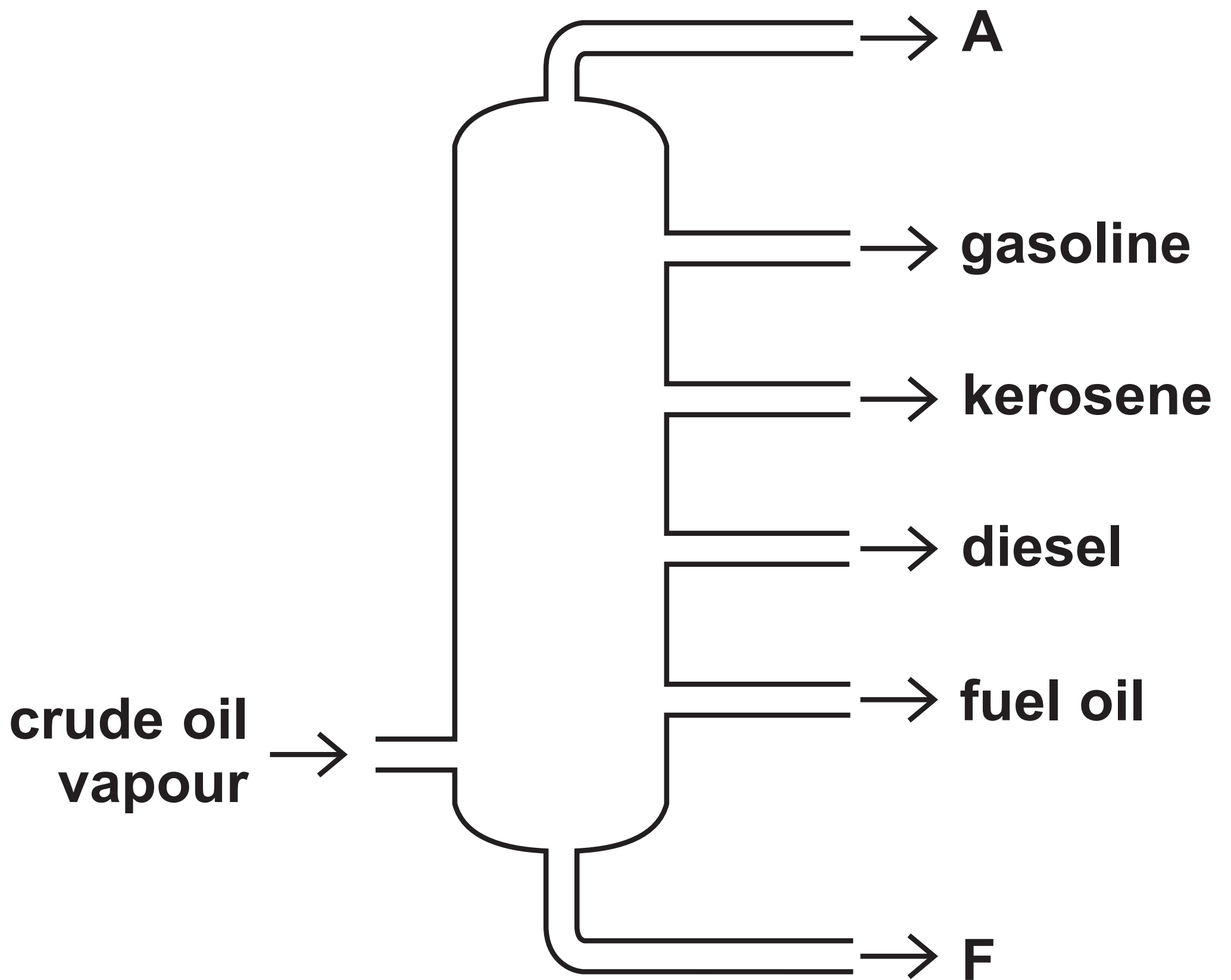
tube 1



tube 2

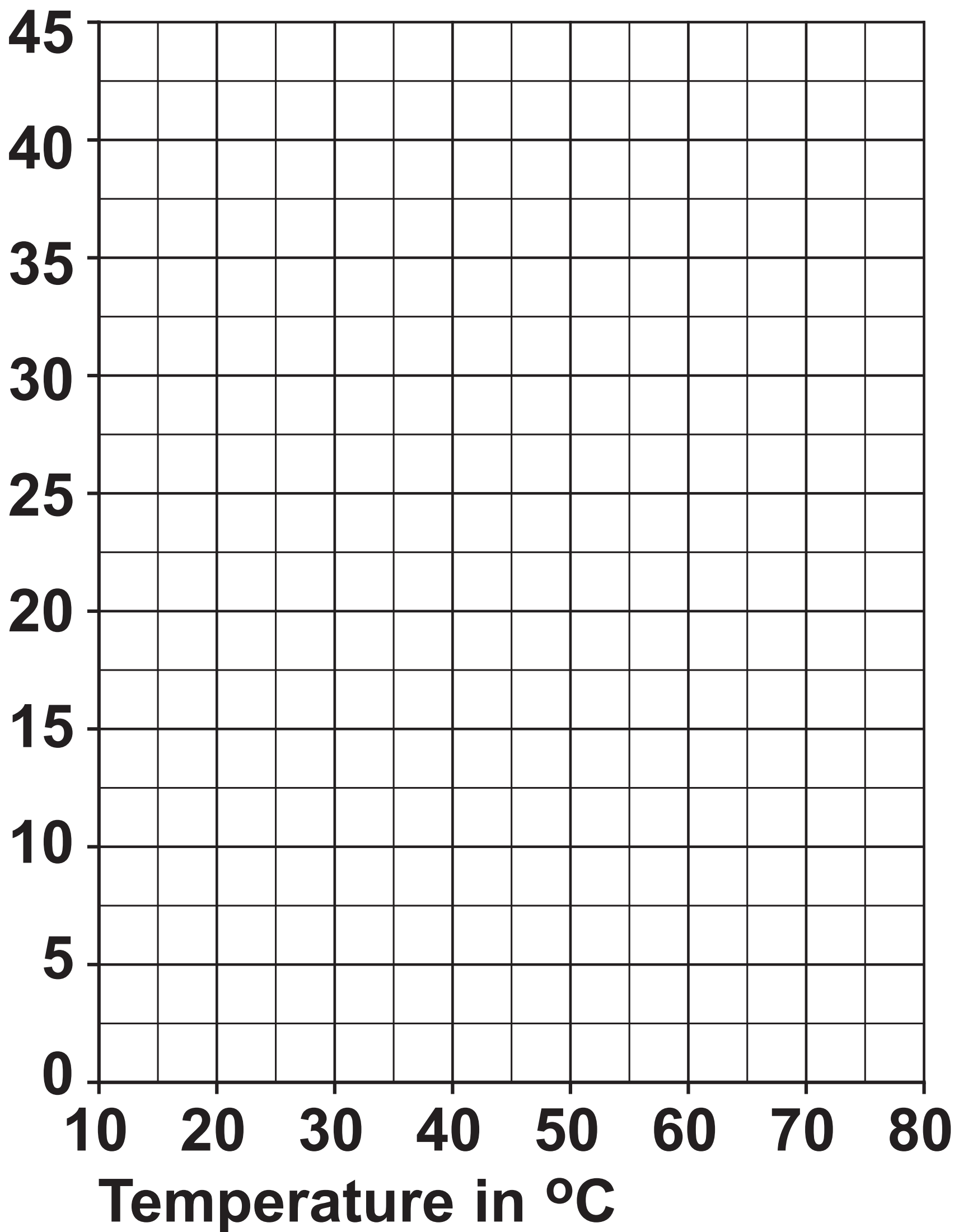


Question 3(a)



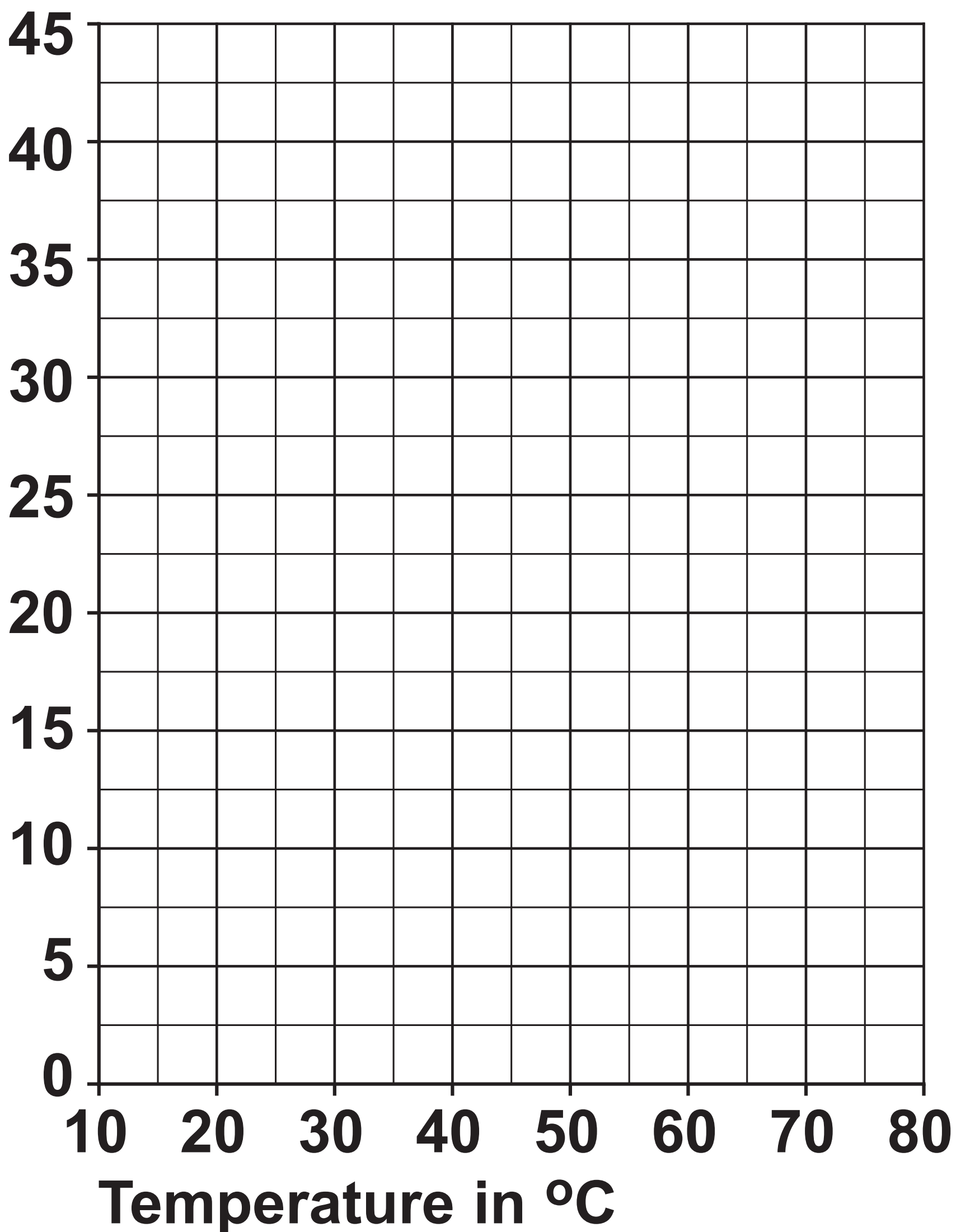
Question 4(a)

**Mass of potassium nitrate
in g**



Question 4(a) (Spare copy)

**Mass of potassium nitrate
in g**



Question 5(b)(iii)

ethanol	ethanoic acid
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Question 5(b)(iii) (Spare copy)

ethanol	ethanoic acid
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Question 5(c)(i)

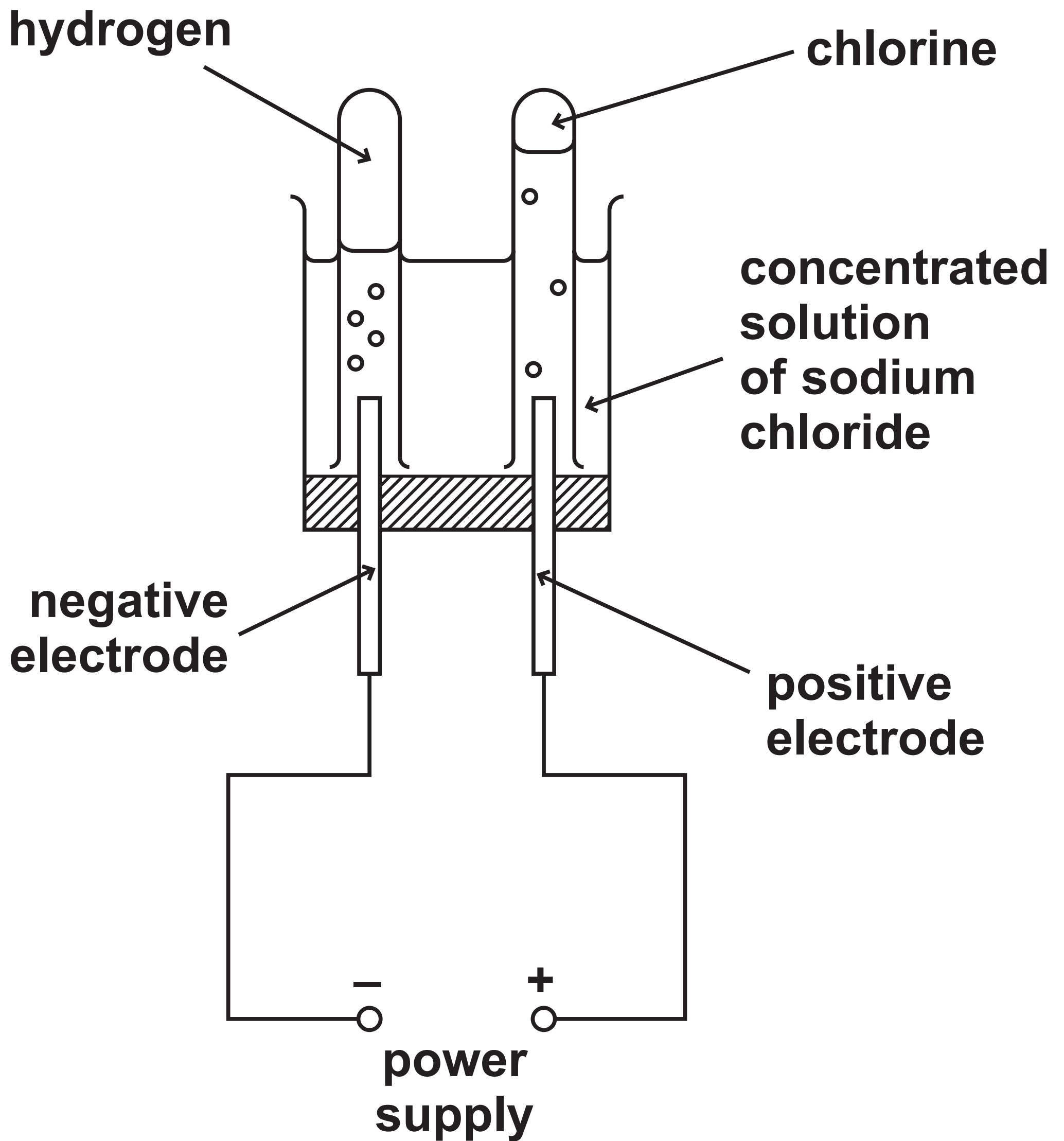
	Hydration of ethene	Fermentation of glucose
raw material	crude oil	sugar cane
rate of reaction	fast	slow
purity of ethanol	pure	impure
operating temperature	300 °C	30 °C
operating pressure	60 – 70 atmospheres	1 atmosphere
catalyst	phosphoric acid	enzymes in yeast

Question 5(c)(ii)



Question 5(c)(ii) (Spare copy)

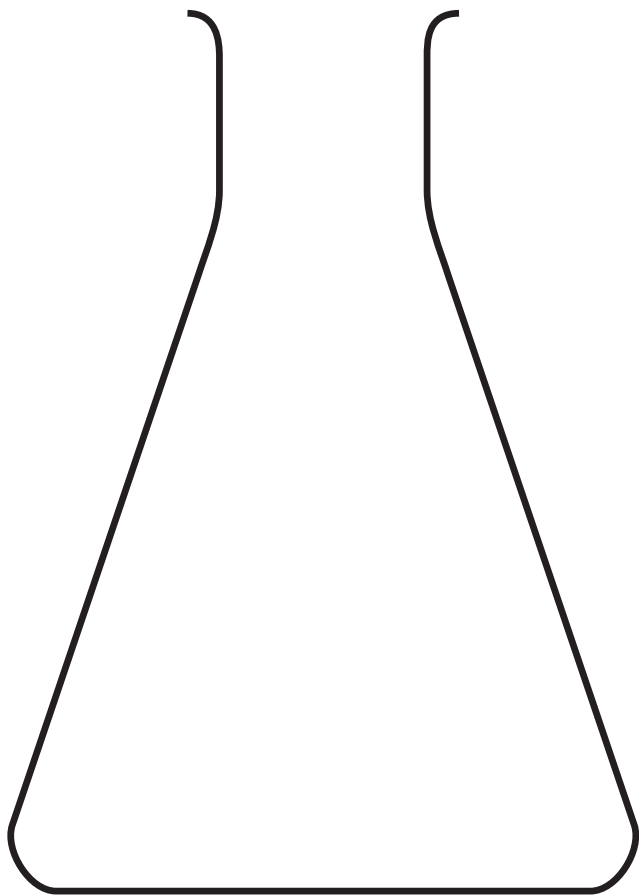
Question 6(a)



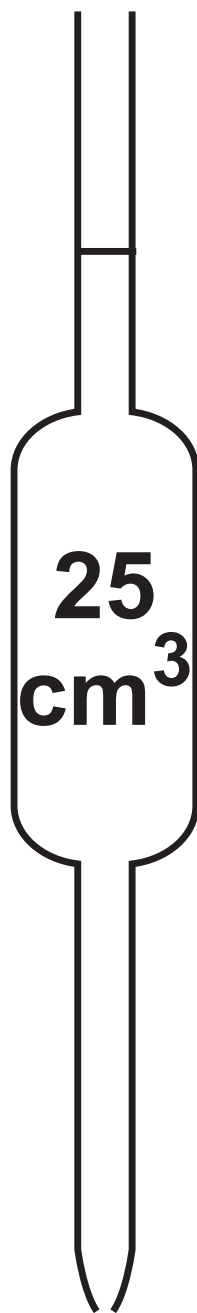
Question 7(a)

Diagrams are not to scale.

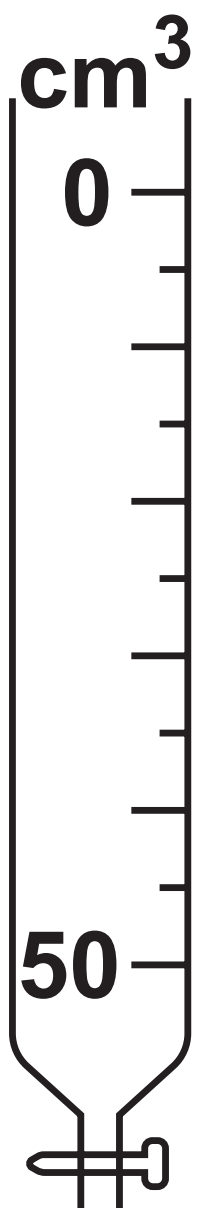
X



Y



Z



Question 7(c)

TABLE 1

titration number	1	2	3	4
volume of NaOH added in cm ³	30·35	30·25	30·00	30·30
concordant results				

Question 7(c) (Spare copy)**TABLE 1**

titration number	1	2	3	4
volume of NaOH added in cm³	30·35	30·25	30·00	30·30
concordant results				

Question 7(d)**TABLE 2**

volume of phosphoric acid used in cm³	25·0
concentration of sodium hydroxide solution in mol/dm³	0·525
mean volume of sodium hydroxide added in cm³	30·40