

Paper Reference(s) 1CH0/1H
Pearson Edexcel Level 1/Level 2 GCSE
(9–1)

Chemistry
PAPER 1
Higher Tier

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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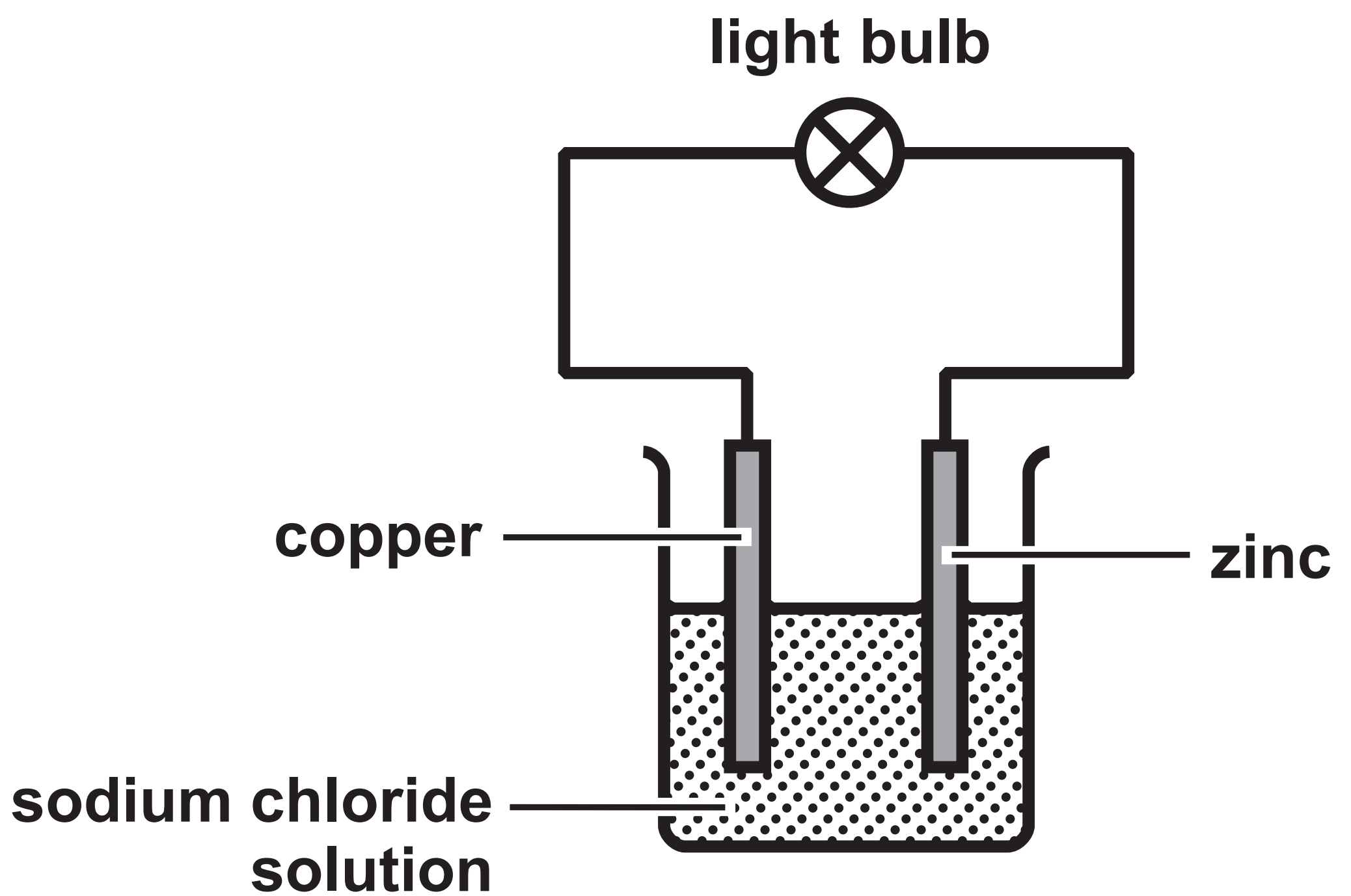
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Question 1(a)

FIGURE 1



Question 2(a)

barium hydroxide	hydrochloric acid	barium chloride	water
solid	aqueous	aqueous	liquid
solid	liquid	solid	aqueous
aqueous	aqueous	solid	liquid
aqueous	liquid	aqueous	aqueous

☐ A

☐ B

☐ C

☐ D

Question 2(b)

- STEP 1** measure out 50.0 cm^3 of dilute hydrochloric acid into a beaker using a measuring cylinder
- STEP 2** use a glass rod to place a drop of the acid onto a piece of universal indicator paper and record the pH
- STEP 3** add 0.2 g of barium hydroxide to the acid in the beaker and stir
- STEP 4** use the glass rod to place a drop of the mixture onto a new piece of universal indicator paper and record the pH again
- STEP 5** repeat steps 3–4 until there is no further change in the pH.

Question 2(b)(iv)

**pH of the
mixture**

mass of barium hydroxide in g

Question 2(b)(iv)

**pH of the
mixture**

mass of barium hydroxide in g

Question 4(a)**FIGURE 3**

	mass in g
mass of sucrose	100·00
mass of ethanol obtained from the reaction	8·07
theoretical mass of ethanol formed	53·80

Question 5(c)

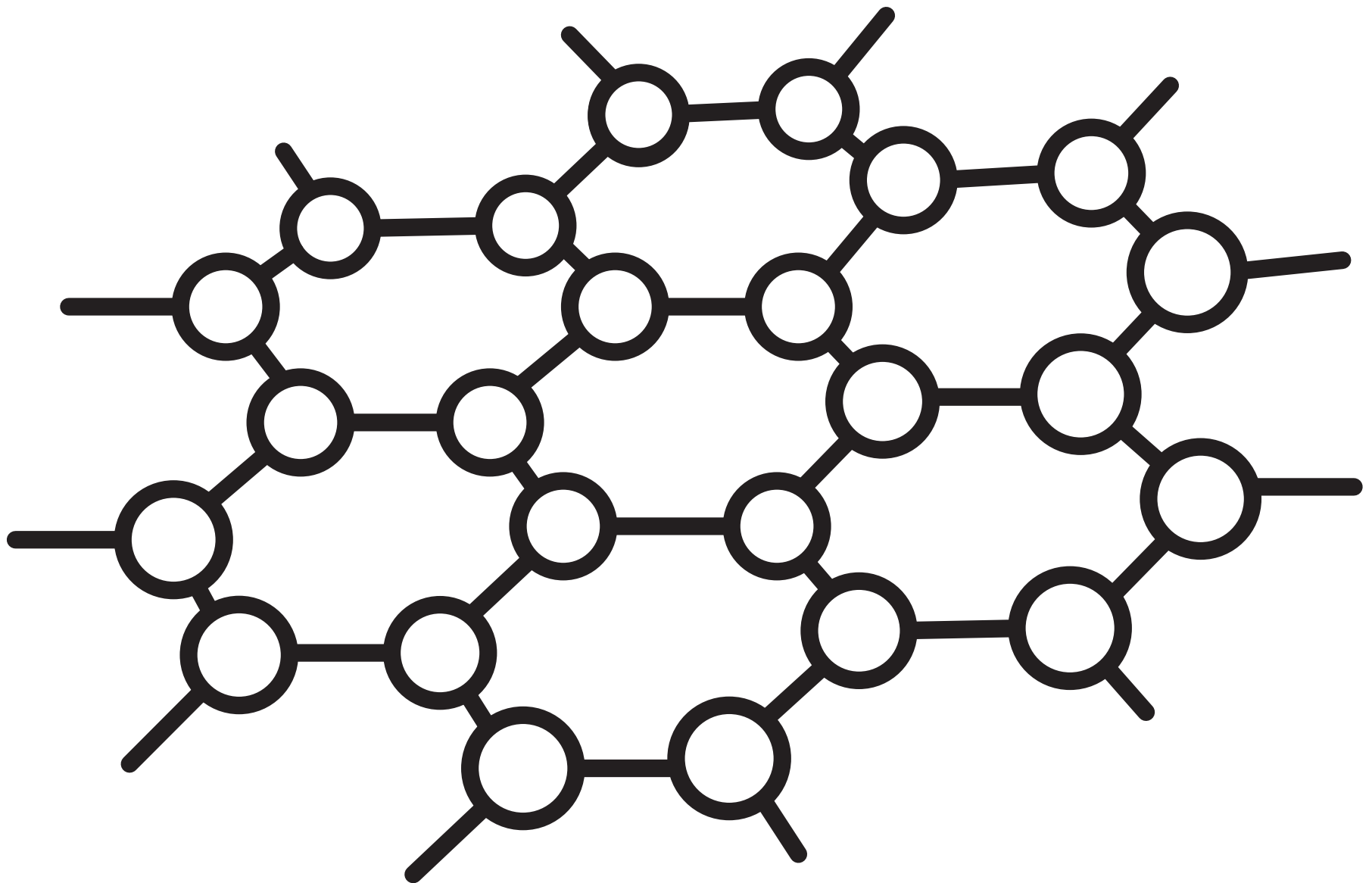
FIGURE 4

	electrodes	
	anode	cathode
mass of electrode before electrolysis in g	6·43	6·17
mass of electrode after electrolysis in g	5·62	6·95
change in mass in g	−0·81	+0·78

Question 8(b)

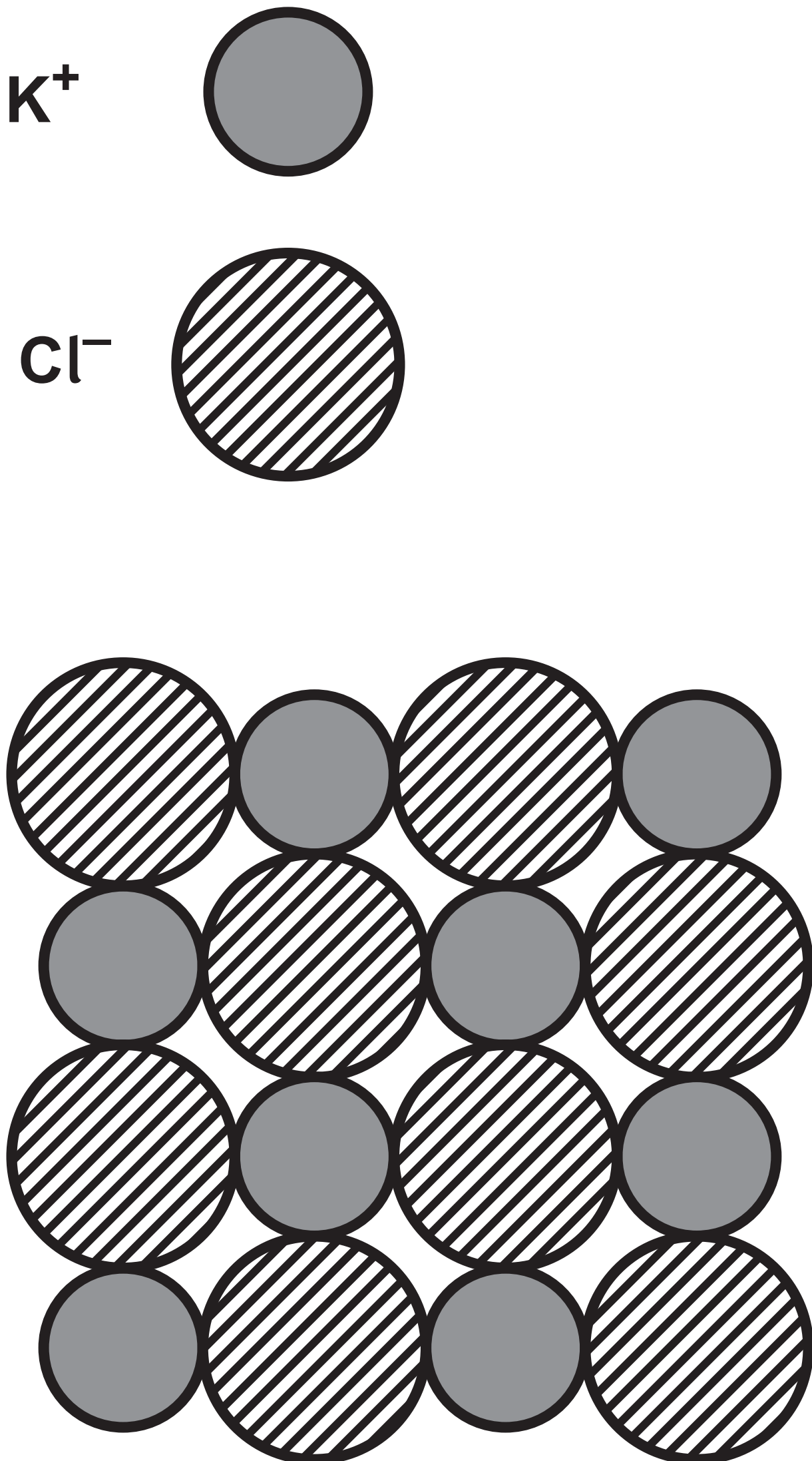
FIGURE 5

○ carbon atom



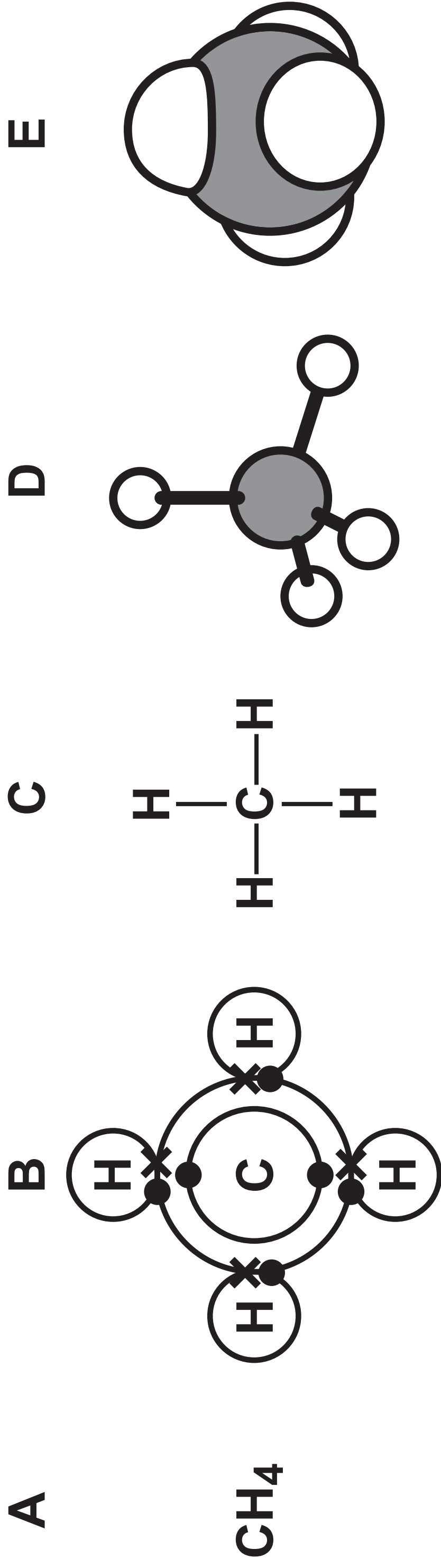
Question 8(c)

FIGURE 6



Question 8(d)

FIGURE 7



Question 9(a)(i)

FIGURE 8

metal	observations with dilute hydrochloric acid
W	Bubbles formed quickly with some metal remaining after three minutes.
X	A few bubbles were seen to form. The metal looked unchanged after three minutes.
Y	Bubbles formed quickly. After three minutes all the metal had reacted.
Z	Bubbles formed very quickly with no metal remaining after three minutes.

Question 9(a)(i)

**least
reactive**



**most
reactive**

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Question 9(a)(i)

**least
reactive**



**most
reactive**

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