

Chemistry
UNIT: 4CH1
PAPER: 2CR

Tuesday 13 June 2023 – Morning

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.**

Contents

Page

4	Question 1(b)
5	Question 2(a)
6	Question 3(a)
7	Question 3(b)
8	Question 4(a)
9	Question 5(c)
10	Question 5(d)
11	Question 7(b)
12	Question 7(c)(i)

Spare Copies

13	Question 2(a)
14	Question 5(c)
15	Question 7(c)(i)

Question 1(b)

[illegible]

Question 2(a)

Halogen	Physical state at room temperature	Colour	Colour of dilute aqueous solution of halogen
fluorine	gas		colourless
chlorine	gas	green	colourless
bromine		red-brown	orange
iodine	solid	grey	brown

Question 3(a)

aluminium

calcium

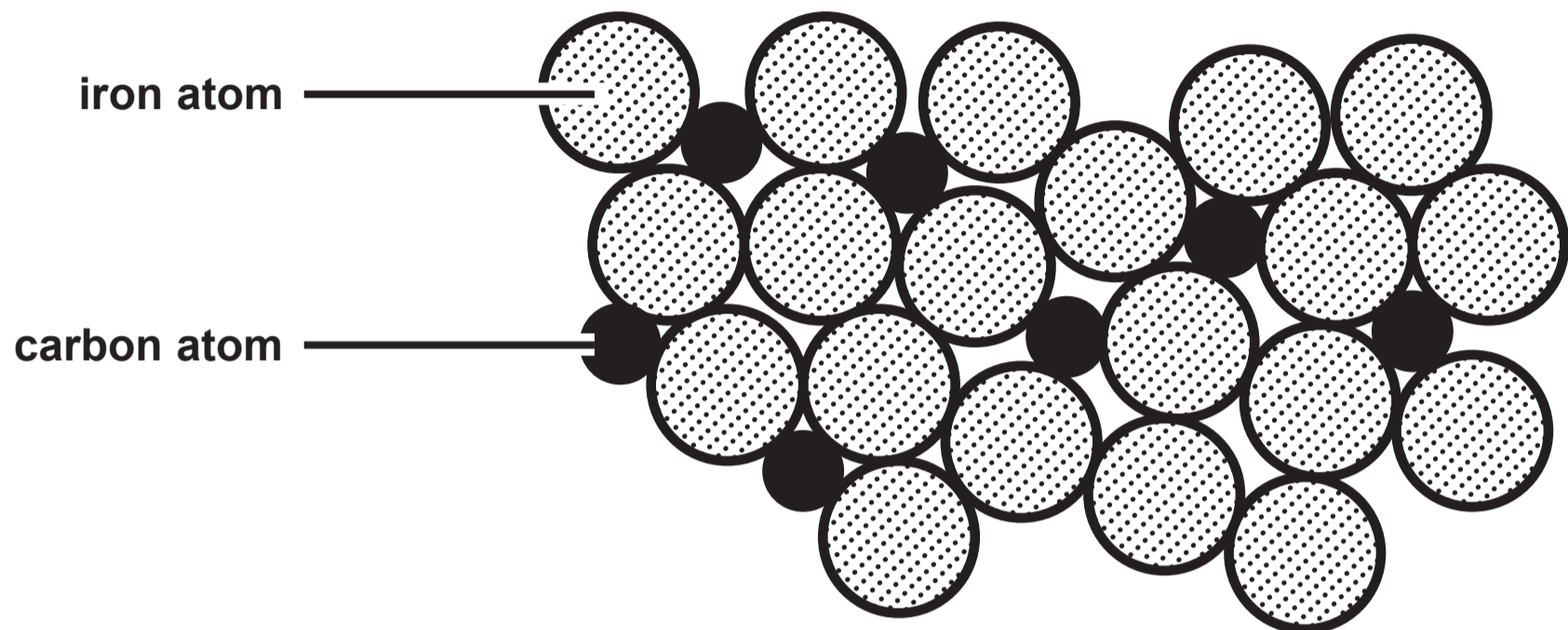
gold

magnesium

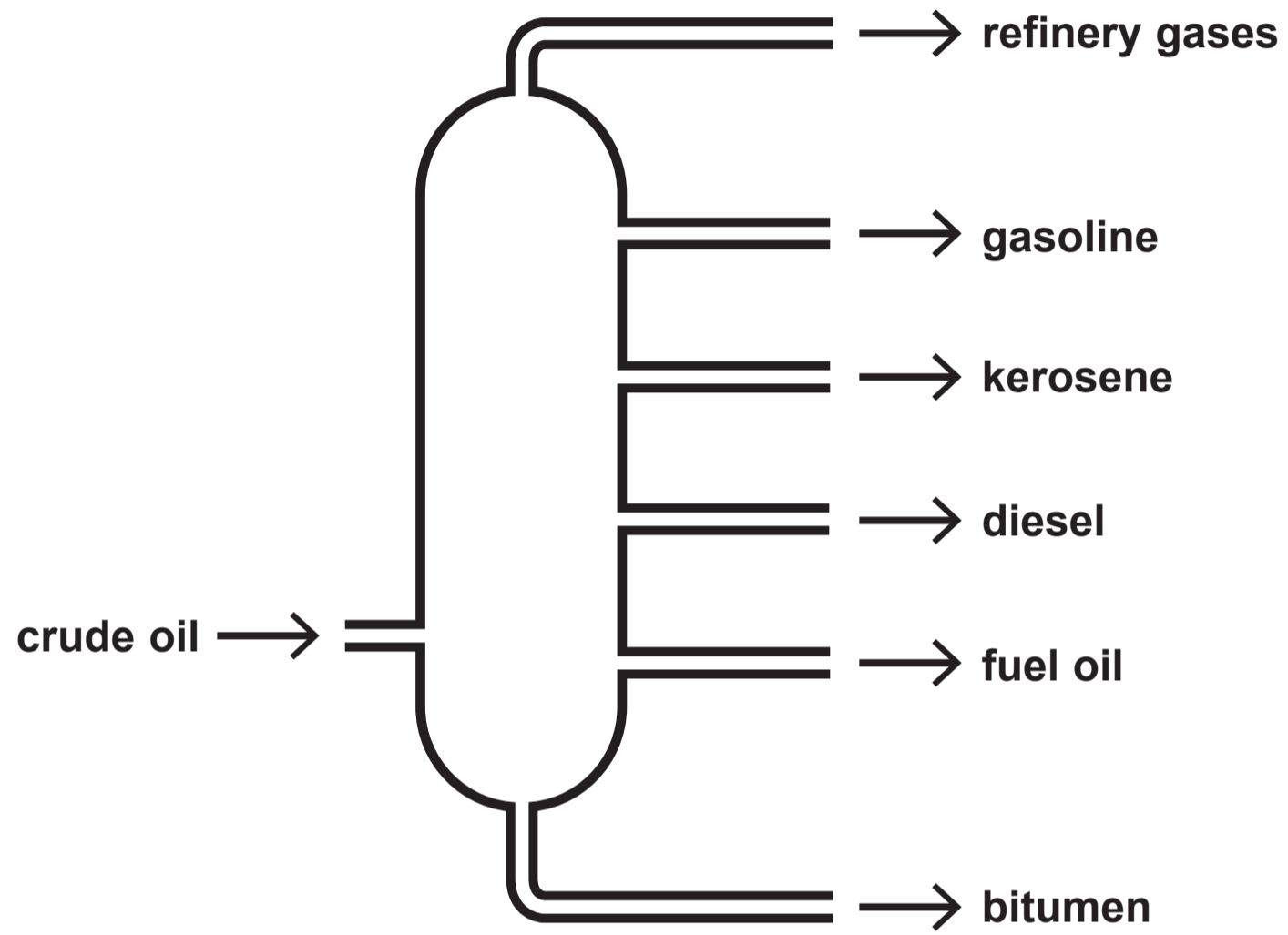
silver

zinc

Question 3(b)

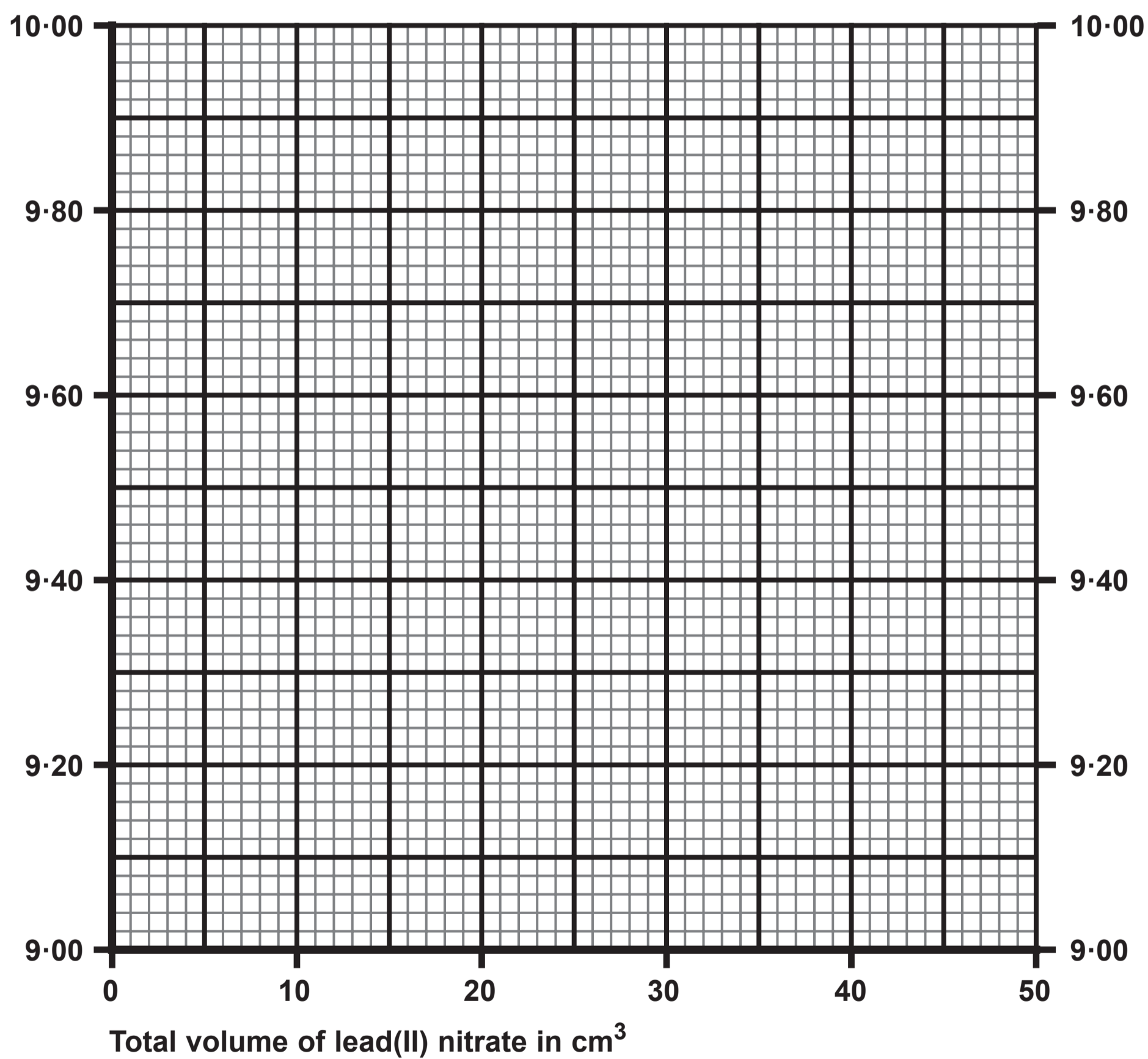


Question 4(a)

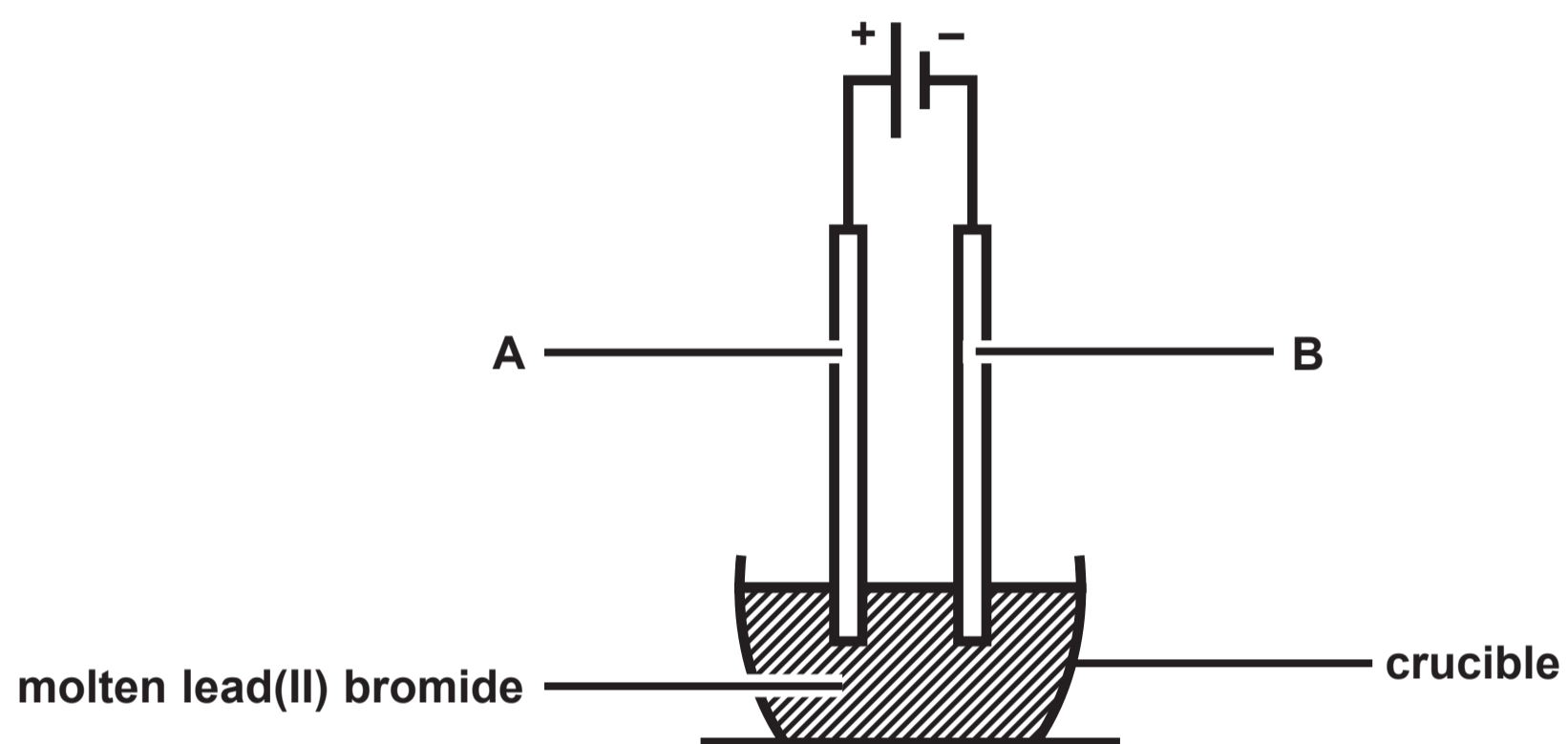


Question 5(c)

Electrical conductivity
in arbitrary units



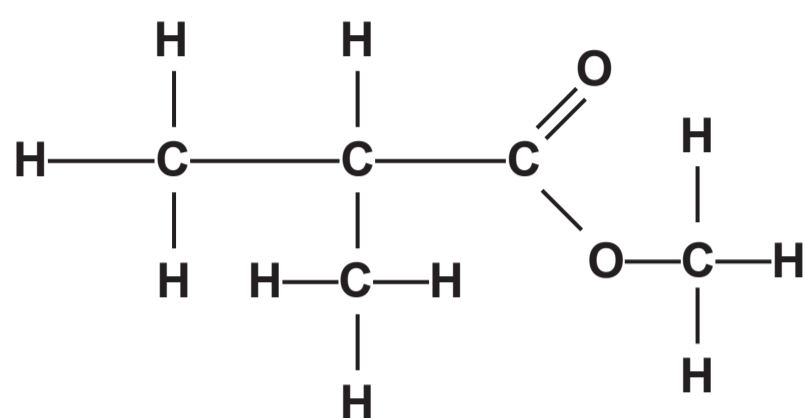
Question 5(d)



Question 7(b)

Bond	Bond energy in kJ/mol
H—H	436
C≡O	1072
C—H	414
C—O	358
O—H	463

Question 7(c)(i)

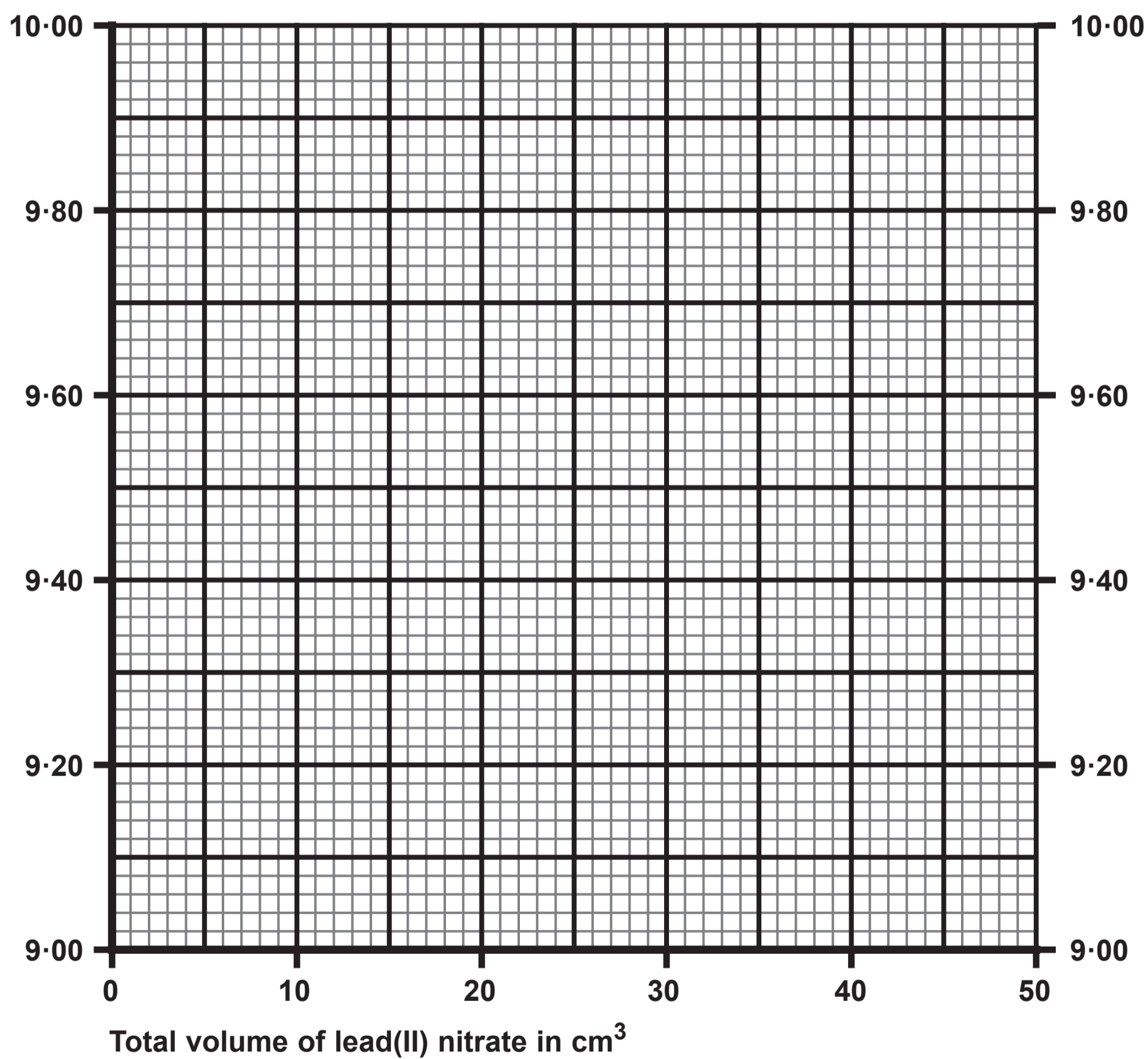


Question 2(a)

Halogen	Physical state at room temperature	Colour	Colour of dilute aqueous solution of halogen
fluorine	gas		colourless
chlorine	gas	green	colourless
bromine		red-brown	orange
iodine	solid	grey	brown

Question 5(c)

Electrical conductivity
in arbitrary units



Question 7(c)(i)

