



Cambridge International Examinations
Cambridge International General Certificate of Secondary Education

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CHEMISTRY

0620/03

Paper 3 Theory (Core)

For Examination from 2016

SPECIMEN PAPER

1 hour 15 minutes

Candidates answer on the Question Paper.

No Additional Materials are required.

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name on all the work you hand in.

Write in dark blue or black pen.

You may use an HB pencil for any diagrams, graphs or rough working.

Do not use staples, paper clips, glue or correction fluid.

DO **NOT** WRITE IN ANY BARCODES.

Answer **all** questions.

Electronic calculators may be used.

You may lose marks if you do not show your working or if you do not use appropriate units.

A copy of the Periodic Table is printed on page 16.

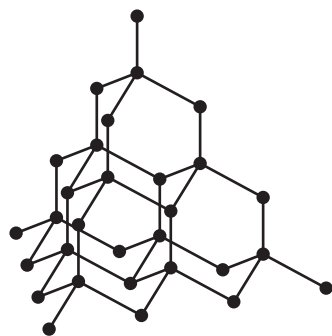
At the end of the examination, fasten all your work securely together.

The number of marks is given in brackets [] at the end of each question or part question.

The syllabus is accredited for use in England, Wales and Northern Ireland as a Cambridge International Level 1/Level 2 Certificate.

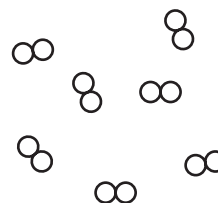
This document consists of **15** printed pages and **1** blank page.

1 The structures of diamond and chlorine are shown below.



diamond

● = carbon atom



chlorine

○ = chlorine atom

(a) Describe the structure of these two substances.
Use the list of words to help you.

covalent diatomic giant macromolecule molecule structure

diamond

.....

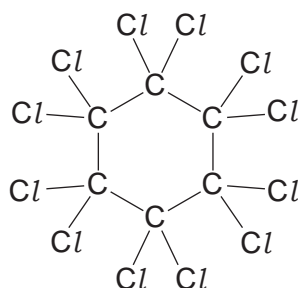
.....

chlorine

.....

..... [4]

(b) The structure of a compound containing carbon and chlorine is shown below.



What is the molecular formula of this compound?

..... [1]

(c) Chlorine is a halogen.

(i) State the colour of chlorine.

..... [1]

The table shows some properties of the halogens.

element	boiling point/°C	density in liquid state/g per cm ³	colour
fluorine	-188	1.51	yellow
chlorine	-35	1.56	
bromine	-7		red-brown
iodine	+114	4.93	grey-black

Use the information in the table to answer the following questions.

(ii) Predict the density of liquid bromine.

..... [1]

(iii) Describe the trend in boiling point of the halogens down the group.

..... [1]

(d) (i) Complete the word equation for the reaction of bromine with aqueous potassium iodide.

bromine + potassium iodide → +

..... [2]

(ii) Suggest why bromine does not react with aqueous potassium chloride.

..... [1]

(e) Potassium chloride is an ionic substance but iodine is a molecular substance. How do most ionic and molecular substances differ in their

solubility in water?

.....

electrical conductivity?

..... [2]

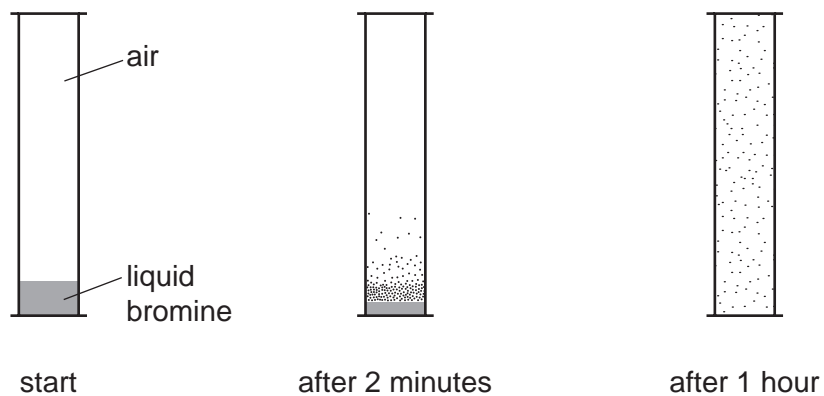
[Total: 13]

2 Bromine is an element in Group VII of the Periodic Table.

(a) State the formula for a molecule of bromine.

..... [1]

(b) A teacher placed a small amount of liquid bromine in the bottom of a sealed gas jar of air. After two minutes red-brown fumes were seen just above the liquid surface. After one hour the red-brown colour had spread completely throughout the gas jar.



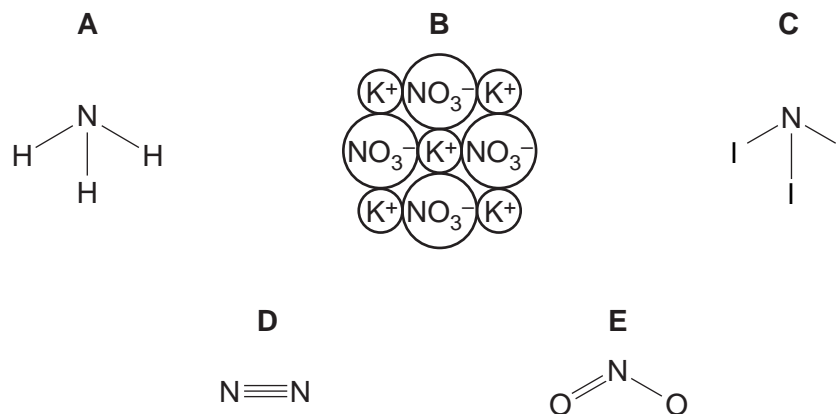
Use the kinetic particle model of matter to explain these observations.

.....

 [3]

[Total: 4]

3 The structures of some substances containing nitrogen are shown below.



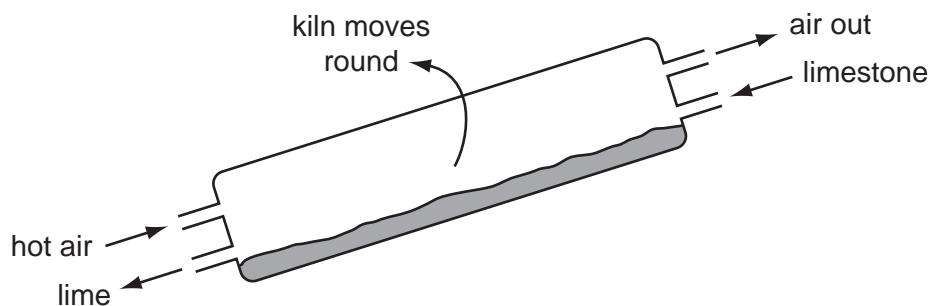
Answer the following questions by choosing from the structures **A**, **B**, **C**, **D** or **E**.
You can use each structure once, more than once or not at all.

Which structure represents

- | | | |
|---|---|-----|
| (a) an acidic oxide, | <input style="width: 40px; height: 30px;" type="checkbox"/> | [1] |
| (b) an ionic structure, | <input style="width: 40px; height: 30px;" type="checkbox"/> | [1] |
| (c) a gas which turns damp red litmus paper blue, | <input style="width: 40px; height: 30px;" type="checkbox"/> | [1] |
| (d) a compound which is formed under conditions of high temperature and pressure in car engines, | <input style="width: 40px; height: 30px;" type="checkbox"/> | [1] |
| (e) a molecule containing halogen atoms, | <input style="width: 40px; height: 30px;" type="checkbox"/> | [1] |
| (f) a salt? | <input style="width: 40px; height: 30px;" type="checkbox"/> | [1] |

[Total: 6]

- 4 The diagram shows a rotary lime kiln used to make lime from limestone. Limestone is fed in at the top of the kiln and lime comes out at the bottom.



- (a) State the chemical name for lime?

..... [1]

- (b) State the name of the type of chemical reaction that takes place in the kiln.

..... [1]

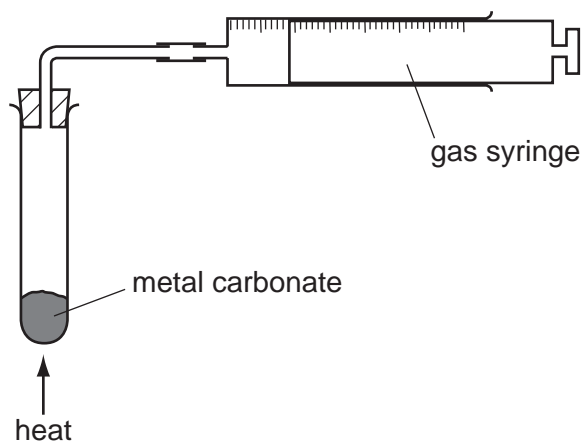
- (c) Suggest why the air coming out of the kiln has a greater percentage of carbon dioxide than the air entering the kiln.

..... [1]

- (d) State **one** use for lime.

..... [1]

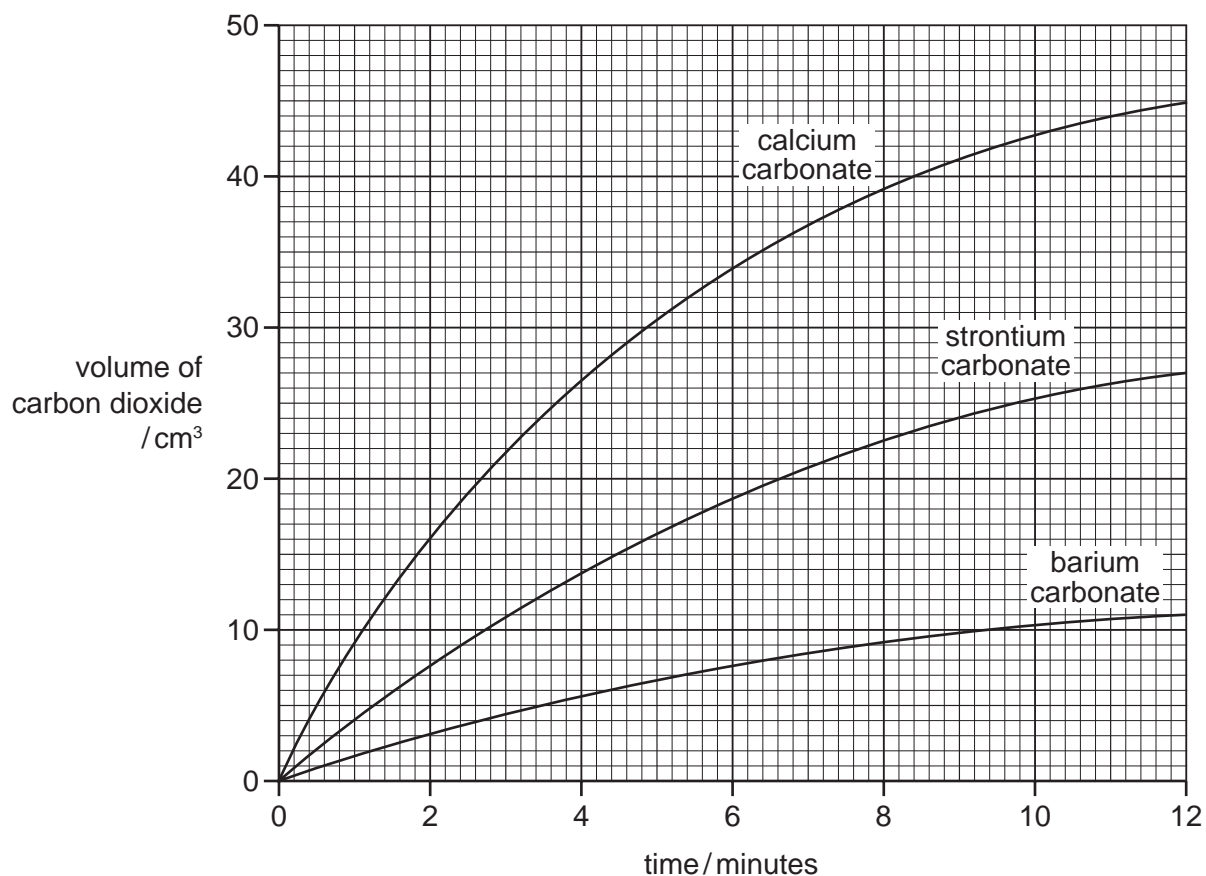
- (e) A student compared the rates of reaction of three metal carbonates. She measured the volume of gas released using the apparatus shown.



State **one** thing that must be kept constant if the rates of the three reactions are to be compared in a fair way.

..... [1]

- (f) The graph shows the volume of carbon dioxide released when the three metal carbonates were heated.



- (i) Which carbonate produced carbon dioxide at the highest rate?

..... [1]

- (ii) What volume of carbon dioxide was produced by strontium carbonate in twelve minutes?

..... [1]

- (iii) How do the rates of the reactions of these three metal carbonates relate to the position of calcium, strontium and barium in the Periodic Table?

.....

..... [2]

- (g) Describe how hydrochloric acid and limewater can be used to show that carbonate ions are present in calcium carbonate.

.....

.....

..... [3]

[Total: 12]

5 Iron is a transition element.

(a) State **three** properties of transition elements which are **not** shown by the Group I elements.

1.
2.
3. [3]

(b) The symbols for two isotopes of iron are shown below.



(i) How do these two isotopes differ in their atomic structure?

..... [1]

(ii) Determine the number of neutrons present in one atom of the isotope ${}_{26}^{57}\text{Fe}$.

..... [1]

(iii) Determine the number of electrons in one Fe^{3+} ion?

..... [1]

(c) Pure iron rusts very easily.

Describe and explain **one** method of preventing rusting.

method

explain why this method works

..... [2]

(d) Iron can be recycled.

Explain **two** advantages of recycling metals.

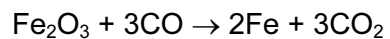
.....

.....

.....

..... [2]

- (e) In the blast furnace, iron(III) oxide reacts with carbon monoxide.



Which substance gets reduced in this reaction?
Explain your answer.

substance

explanation

..... [2]

- (f) (i) Carbon monoxide is a pollutant gas produced in motor car engines.
State why carbon monoxide is formed.

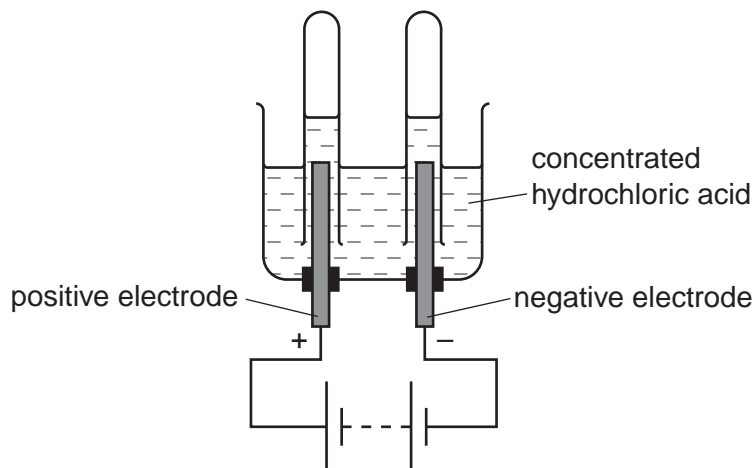
..... [1]

- (ii) State **one** harmful effect of carbon monoxide.

..... [1]

[Total: 14]

- 6 Concentrated hydrochloric acid can be electrolysed using the apparatus shown.



- (a) Define the term *electrolysis*?

.....
 [1]

- (b) What is the name given to the positive electrode?
 Put a ring around the correct answer.

anion anode cathode cation electrolyte

[1]

- (c) State the name of the gas given off at the negative electrode.

..... [1]

- (d) Complete the following sentence about electrolysis using words from the list.

inert magnesium platinum reactive solid

Electrodes made of graphite or are generally used in electrolysis
 because they are

[2]

(e) When concentrated hydrochloric acid is electrolysed, chlorine is released.

(i) Draw the shells and the electronic structure in an atom of chlorine.

[1]

(ii) Draw the electronic structure of a chlorine molecule.
Show only the outer electron shells.

[2]

(iii) Describe a test for chlorine.

test

result [2]

(f) Hydrochloric acid reacts with the base calcium hydroxide.

(i) Complete the word equation for this reaction.

hydrochloric acid + calcium hydroxide → +

..... [2]

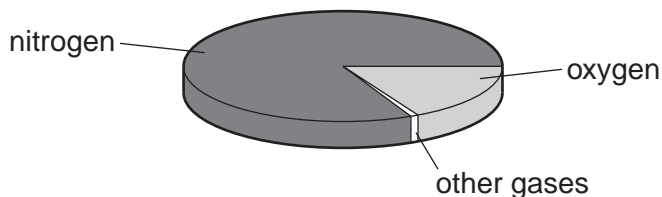
(ii) Hydrochloric acid also reacts with zinc.
Complete the symbol equation for this reaction.

$\text{Zn} + \dots\dots\text{HCl} \rightarrow \text{ZnCl}_2 + \dots\dots$

[2]

[Total: 14]

7 The pie chart shows the composition of air.



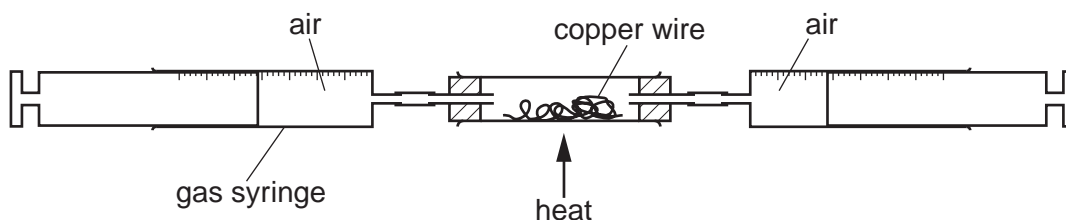
(a) (i) What is the percentage of nitrogen in the air?

..... [1]

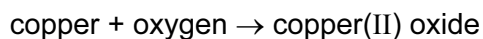
(ii) Apart from nitrogen and oxygen, state the names of **two** gases present in unpolluted air.

..... and [2]

(b) The percentage of oxygen in air can be found using the apparatus shown below.



Air is passed backwards and forwards over the heated copper using the syringes. The copper reacts with oxygen in the air.



As the experiment proceeds, suggest what happens to

(i) the total volume of air in the gas syringes,

..... [1]

(ii) the mass of the wire in the tube.

..... [1]

(c) State **one** use of copper.

..... [1]

[Total: 6]

8 Ethene, C_2H_4 , is manufactured by cracking petroleum fractions.

(a) (i) What do you understand by the term *fraction*?

.....
 [1]

(ii) Complete the symbol equation for the manufacture of ethene from dodecane, $C_{12}H_{26}$.



(b) Two fractions obtained from the distillation of petroleum are refinery gas and gasoline. State **one** use of each of these fractions.

refinery gas

gasoline [2]

(c) Ethene is an unsaturated hydrocarbon. What do you understand by the following terms?

unsaturated

hydrocarbon [2]

(d) Ethene is used to make ethanol.

(i) Which of these reactions is used to make ethanol from ethene?
 Tick one box.

catalytic addition of steam

fermentation

oxidation using oxygen

reduction using hydrogen

[1]

(ii) Draw the structure of ethanol, showing all atoms and bonds.

[2]

- (e) Ethene is used to make poly(ethene).
Complete the following sentences about this reaction.
Use words from the list below.

additions carbohydrates catalysts monomers polymers

The ethene molecules which join to form poly(ethene) are the

The poly(ethene) molecules formed are [2]

[Total: 11]

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Re rhenium 186	76 Os osmium 190	77 Ir iridium 192	78 Pt platinum 195	79 Au gold 197	80 Hg mercury 201	81 Tl thallium 204	82 Pb lead 207	83 Bi bismuth 209	84 Po polonium —	85 At astatine —	86 Rn radon —	87 Fr francium —	88 Ra radium —	89–103 actinoids	104 Rf rutherfordium —	105 Db dubnium —	106 Sg seaborgium —	107 Bh bohrium —	108 Hs hassium —	109 Mt meitnerium —	110 Ds darmstadtium —	111 Rg roentgenium —	112 Cn copernicium —	113 Nh nihonium —	114 Fl flerovium —	115 Mc moscovium —	116 Lv livermorium —	117 Ts tennessine —	118 Og oganesson —	119 Uu unbinilium —	120 Uub unbinilium —	121 Uut unbinilium —	122 Uuq unbinilium —	123 Uuq unbinilium —	124 Uuq unbinilium —	125 Uuq unbinilium —	126 Uuq unbinilium —	127 Uuq unbinilium —	128 Uuq unbinilium —	129 Uuq unbinilium —	130 Uuq unbinilium —	131 Uuq unbinilium —	132 Uuq unbinilium —	133 Uuq unbinilium —	134 Uuq unbinilium —	135 Uuq unbinilium —	136 Uuq unbinilium —	137 Uuq unbinilium —	138 Uuq unbinilium —	139 Uuq unbinilium —	140 Uuq 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The volume of one mole of any gas is 24 dm³ at room temperature and pressure (r.t.p.)

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