ntre b. Paper Reference Surname	Initial(s)
xdidate / 1 C Signature	<b>I</b>
Paper Reference(s) 5657/1C E	xaminer's use only
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Science: Single Awaru D (1555)	
Science: Double Award B (1530) Chamistary B (1520)	Question Leave Number Blank
(Medules 2 and 4)	1
(Modules 5 and 4)	2
Paper IC	3
Foundation Tier	4
Wednesday 6 June 2007 – Afternoon	5
Time: 30 minutes	6
Materials required for examination Items included with question papers	
Nil Nil	
estructions to Candidates	
the boxes above, write your centre number, candidate number, your surname, initial(s) and	
neck that you have the correct question paper.	
low all stages in any calculations and state the units. Calculators may be used.	
The questions must be answered with a cross in a box ( $\boxtimes$ ). If you change your mind about an answer, it a line through the box ( $\boxdot$ ) and then mark your new answer with a cross ( $\boxtimes$ ).	
formation for Candidates	
here are 8 pages in this question paper. Any blank pages are indicated. copy of the periodic table is on page 2.	
dvice to Candidates	
This symbol shows where the quality of your written answer will also be assessed.	
	Total
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Turn over

			compounds	-		
			compounds			
	(a)	Chlorine and bromine are	halogens			
			metals	$\times$		(1
					aluminium sulphate	$\times$
	(b)	The substance added to wa	ater supplies to	kill bacteria	is chlorine	$\times$
					sulphur dioxide	
						(1
	(c)	Sodium is in group 1 of th	ne periodic tabl	e.		
			compound	$\times$		
		This shows that sodium is	a metal	$\times$		
			non-metal	$\times$		(1
						(1
					calcium carbonate	$\times$
	(d)	A compound used to prod	uce glass, ceme	ent and iron is	s sodium chloride	$\mathbf{X}$
					sulphur dioxide	
						(1
					(Total 4 m	arks)
3.	Use	the periodic table to help	you answer this	s question.		
	(a)	Write down the name of a	noble gas and	the symbol for	or its atom.	
		name				
		symbol				
						(2
	(b)	Write down the name of a	n alkali metal a	and the symbo	ol for its atom.	
		name				
		armhal				
		Symbol				(2)



Turn over

(b)	John repeated his experiment under the same conditions but he used $50 \text{ cm}^3$ , instead of 25 cm <sup>3</sup> , of the hydrochloric acid.
	What effect, if any, would this have on the rate of reaction? Explain your answer.
<b>1</b>	
	(3)
	(Total 6 marks)
<b>5.</b> Cru	de oil is a very important raw material.
(a)	How was crude oil formed?
(b)	Petrol and kerosene are two products obtained from crude oil.
	Give a use for
	(1) petrol(1)
	(ii) kerosene
	(1)
	(Total 4 marks)



(h)	Draw the structure of a methane molecule, showing all bonds	Le bla
(0)	Draw the structure of a methane morecure, showing an bolicas.	
	(1)	
(-)		
(c)	carbon dioxide.	
	Suggest why some scientists are concerned about this.	
	(1)	
(d)	Incomplete combustion of methane produces carbon monoxide.	
	(i) What causes incomplete combustion?	
	(ii) Why is earbon monovide dangerous?	
	(ii) why is carbon monoxide dangerous?	
	(1)	Q6
	(Total 8 marks)	
	<b>TOTAL FOR PAPER: 30 MARKS</b>	
	END	