Q1	Q1.						
	What is a use for barium sulfate?						
	Α	In agriculture to act as a fertiliser					
	В	In agriculture to neutralise acidic soil					
	С	In medicine to produce an X-ray image					
	D	In medicine as an antacid to treat indigestion					
			(Total 1 mark)				
Q2							
	Which property would you expect the element radium, Ra, to possess?						
	Α	It forms a soluble sulfate.					
	В	It does not react with water.					
	С	It is a good conductor of electricity.					
	D	It forms a covalent fluoride.					
			(Total 1 mark)				
Q3							
	Whi	ch statement is not correct?					
	A	Strontium has a lower first ionisation energy than calcium.					
	В	Strontium has a larger ionic radius than calcium.					
	С	Strontium reacts less vigorously with water than calcium.					
	D	Strontium hydroxide is more soluble in water than calcium hydroxide.					
			(Total 1 mark)				

Q4	Whi	ch property of the Group 2 elements, Ca to Ba, increases with increasing nic number?				
	Α	Atomic Radius				
	В	Electronegativity				
	С	First ionisation energy				
	D	Melting Point				
		(Total 1 mark)				
Q5	Q5. What is the correct observation when barium metal is added to an excess of water?					
	Α	Forms a colourless solution only				
	В	Forms a colourless solution and effervesces				
	С	Forms a white precipitate only				
	D	Forms a white precipitate and effervesces				
		(Total 1 mark)				
Q6. An aqueous solution of a salt gives a white precipitate when mixed with aqueous silver nitrate and when mixed with dilute sulfuric acid. Which could be the formula of the salt?						
		BaCl ₂				
	В	(NH ₄) ₂ SO ₄				
		KCI				
	D	Sr(NO ₃) ₂ (Total 1 mark)				
		(Total 1 mark)				

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Q7	' -						
Which substance is used to reduce titanium(IV) chloride in the extraction of titanium metal?							
	A	Magnesium	0				
	В	Manganese	0				
	С	Vanadium	0				
	D	Zinc	0				
					(Total 1 mark)		
Q8	3.						
	Which statement about barium sulfate is correct?						
	Α	It is soluble in water at a temper	rature of 100 °C.	0			
	В	It is used in medicine because it does not dissolve in body fluids.					
	С	It is a pale yellow solid.		0			
	D	It reacts with acidified barium ch	nloride solution.	0			
					(Total 1 mark)		
Q9).						
Which compound is used to treat the symptoms of indigestion?							
	A	MgO	0				
	В	Mg(OH) ₂	0				
	С	CaO	0				
	D	Ca(OH) ₂	0				
					(Total 1 mark)		

Q10. Which products are formed when magnesium reacts with steam?					
Α	Magnesium hydroxide and hydrogen	0			
В	Magnesium hydroxide and oxygen	0			
C	Magnesium oxide and hydrogen	0			
D	Magnesium oxide and oxygen	0			
			(Total 1 mark)		
Q11. Which of these decreases down Group 2?					
Α	First ionisation energy				
В	Atomic radius				
С	Number of protons				
D	Reactivity with water				
			(Total 1 mark)		
Q12.					
Su	Sulfur dioxide (SO ₂) is produced when some fossil fuels are burned.				
WI	Which of the following statements is true?				
A	Sulfur dioxide can be removed from waste gase power station by an acid-base reaction with calc				
В	Sulfur dioxide is insoluble in water.	0			
С	Sulfur dioxide is a basic oxide.	0			
D	Sulfur dioxide is an ionic compound.	0			
			(Total 1 mark)		