Group 2, the alkaline earth metals – AS 2022 Chemistry P1

1.

June/2022/Pap	per_7404/1/No.1
0 1	This question is about ionisation energies of Group 2 elements.
0 1.1	Explain why the first ionisation energy of the Group 2 elements decreases down the group.
	[2 marks
0 1.2	Give an equation, including state symbols, to represent the process that occurs when the third ionisation energy of magnesium is measured.
	[1 mark
0 1 . 3	Explain why the third ionisation energy of magnesium is much higher than the second ionisation energy of magnesium.
	[2 marks

2. June/2022/Paper_7404/1/No.22

Which statement is correct?

[1 mark]

A	Magnesium reacts with steam to give magnesium oxide as one of the products.	0
В	Magnesium acts as an oxidising agent in the extraction of titanium.	0
С	Magnesium has a lower melting point than sodium.	0
D	Magnesium hydroxide is very soluble in water.	0