

A-Level Chemistry - Year 2

OCR Chemistry A - Paper 1 June - 2019

Question - 16

16 Sir Humphrey Davy discovered several elements including sodium, potassium, magnesium, calcium and strontium.

(a) Explain which block in the Periodic Table sodium and magnesium belong to.

(1)

(b) A sample of magnesium, $A_r = 24.305$, is found to consist of three isotopes. The accurate relative isotopic masses and % abundances of two of the isotopes are shown in the table.

Isotope	Relative isotopic mass	% abundance
^{24}Mg	23.985	78.99%
^{26}Mg	24.986	10.00%

Determine the relative isotopic mass of the third isotope of magnesium in the sample.

Give your answer to 5 significant figures.

relative isotopic mass = _____ (5)

OCR

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Tuesday 4 June 2019 – Afternoon

A Level Chemistry A

443291 Periodic table, elements and physical chemistry

Time allowed: 1 hour 15 minutes

We need you

1 to take the opportunity to
show your progress

We need you

1 to provide a positive outcome



Please write clearly in black ink. Do not write in the brackets.

Centre number

Candidate number

First name

Last name

NOTIFICATION

- Use black ink. You may use an HB pencil for graphs and diagrams.
- Answer all the questions.
- Where appropriate, your answers should be supported with writing. Marks may be given for a correct method even if the answer is incorrect.
- Write your answer to each question in the space provided. If additional space is required, see the front papers at the end of the booklet. The question numbers must be clearly shown.

INFORMATION

- The total mark for this paper is 100.
- The marks for each question are shown in brackets ().
- Quality of extended responses will be assessed in questions marked with an asterisk (*).
- This document consists of 32 pages.

Ocr Chemistry As Level Past Papers F321

Rob Ritchie, Dave Gent



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