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OCR AS Level Chemistry – Paper 1
Unit 1: Atoms, Bonds and Groups
 (Each question = 1 mark)

1. Which one of the following statements about the atom is false?
- A A neutron has the same relative mass as a proton.
 B The number of neutrons in an atom is the same as the number of protons.
 C The relative mass of an electron is very small compared to that of a proton.
 D Clouds of negative charge surround the nucleus.

 B


2. The number of neutrons present in the cobalt isotope $^{60}_{27}\text{Co}$ is

- A 33
 B 27
 C 60
 D 87

 A


3. The analysis of a sample of rubidium using a mass spectrometer showed that two isotopes were present, ^{85}Rb and ^{87}Rb . The table below shows the percentage abundance for each isotope:

isotope	^{85}Rb	^{87}Rb
relative isotopic mass	85.0	87.0
% abundance	72.1	27.9

Which one of the following is the relative atomic mass of rubidium to three significant figures?

- A 85.5
 B 86.5
 C 85.6
 D 86.4

 C


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**Andrew Georgiou, Paulo Mazzoncini de
Azevedo Marques**

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Table of Contents F321 2014 Paper

1. Understanding the eBook F321 2014 Paper
 - The Rise of Digital Reading F321 2014 Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying F321 2014 Paper
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an F321 2014 Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from F321 2014 Paper
 - Personalized Recommendations
 - F321 2014 Paper User Reviews and Ratings
 - F321 2014 Paper and Bestseller Lists
5. Accessing F321 2014 Paper Free and Paid eBooks
 - F321 2014 Paper Public Domain eBooks
 - F321 2014 Paper eBook Subscription Services
 - F321 2014 Paper Budget-Friendly Options
6. Navigating F321 2014 Paper eBook Formats

- ePub, PDF, MOBI, and More
- F321 2014 Paper Compatibility with Devices
- F321 2014 Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of F321 2014 Paper
 - Highlighting and Note-Taking F321 2014 Paper
 - Interactive Elements F321 2014 Paper
- 8. Staying Engaged with F321 2014 Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers F321 2014 Paper
- 9. Balancing eBooks and Physical Books F321 2014 Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection F321 2014 Paper
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine F321 2014 Paper
 - Setting Reading Goals F321 2014 Paper
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of F321 2014 Paper
 - Fact-Checking eBook Content of F321 2014 Paper
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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