

Name:  e-mail: 

**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:  $^{85}\text{Rb}$  and  $^{87}\text{Rb}$ . The table below shows the percentage abundance for each isotope:

isotope	$^{85}\text{Rb}$	$^{87}\text{Rb}$
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

# F321 Past Papers

**Wolfgang Guggemos**



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