

Atomic and Structure and Isotopes (MCQ)

1. Which ion has a different number of electrons from the other three ions?

- A Ga^{3+}
- B Cl^-
- C S^{2-}
- D Ca^{2+}

Your answer

[1]

2. Which row shows the atomic structure of ^{37}Cl ?

	protons	neutrons	electrons
A	17	18	20
B	17	20	18
C	18	19	17
D	20	17	21

Your answer

[1]

3. How many electrons are in a

- A. 10
- B. 12
- C. 14
- D. 22

Your answer

[1]

4. Information about two isotopes of an element is given in the table.

Isotope	Mass number	% Abundance
A	144	24
B	145	9

Which statement is correct?

- A. The relative atomic mass of the element is 47.61.
- B. Isotope **B** has more protons than isotope **A**.
- C. Isotope **B** has fewer neutrons than isotope **A**.
- D. The relative isotopic mass of isotope **B** is 145.

Your answer

[1]

END OF QUESTION PAPER

Mark scheme – Atomic Structure and Isotopes MCQ

Question			Answer/Indicative content	Marks	Guidance
1			A	1	Examiner's Comments The majority of candidates provided the correct answer with only the very weakest candidates not achieving the mark.
			Total	1	
2			B	1	Examiner's Comments Generally scored well.
			Total	1	
3			A	1	
			Total	1	
4			D	1	
			Total	1	