



END OF YEAR MOCK EXAMINATION SECONDARY THREE COMBINED CHEMISTRY (ANSWER KEY)

Paper 1

1	A <input type="checkbox"/>	B <input type="checkbox"/>	C <input type="checkbox"/>	D <input checked="" type="checkbox"/>
2	A <input type="checkbox"/>	B <input checked="" type="checkbox"/>	C <input type="checkbox"/>	D <input type="checkbox"/>
3	A <input type="checkbox"/>	B <input type="checkbox"/>	C <input type="checkbox"/>	D <input checked="" type="checkbox"/>
4	A <input checked="" type="checkbox"/>	B <input type="checkbox"/>	C <input type="checkbox"/>	D <input type="checkbox"/>
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6	A <input type="checkbox"/>	B <input checked="" type="checkbox"/>	C <input type="checkbox"/>	D <input type="checkbox"/>
7	A <input type="checkbox"/>	B <input type="checkbox"/>	C <input type="checkbox"/>	D <input checked="" type="checkbox"/>
8	A <input checked="" type="checkbox"/>	B <input type="checkbox"/>	C <input type="checkbox"/>	D <input type="checkbox"/>
9	A <input type="checkbox"/>	B <input type="checkbox"/>	C <input checked="" type="checkbox"/>	D <input type="checkbox"/>
10	A <input type="checkbox"/>	B <input checked="" type="checkbox"/>	C <input type="checkbox"/>	D <input type="checkbox"/>

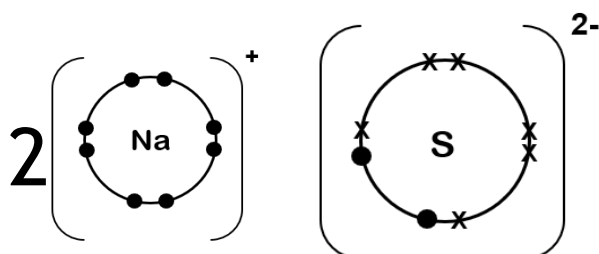
Paper 2

Question 11

- (a)(i) They have the same number of protons (8) but different number of neutrons (8 and 10).
- (a)(ii) They have the same number of valence electrons (6).
- (b) 2.8. It has a completely filled valence shell.
- (c) Particle A. It has 7 positively charged protons and 10 negatively charged electrons.

Question 12

(a)



- (b)(i) Carbon disulfide cannot conduct electricity as it does not have mobile ions or mobile electrons.
- (b)(ii) Carbon disulfide has a simple molecular structure.

A low amount of energy is needed to overcome the weak intermolecular forces of attraction between the molecules. Hence, it has a low boiling point.

Question 13

- (a)(i) Neutralisation
- (a)(ii) $\text{Mg} + 2\text{HCl} \rightarrow \text{MgCl}_2 + \text{H}_2$
- (b)(ii) Calcium hydroxide.

It neutralises the acidity in the soil and increases the pH of the soil.