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GRADE 9 JUNE 2025 MARKING GUIDELINES**QUESTION 1**

1.1	1.2	1.4	1.5	1.6
B✓	C✓	A✓	A✓	B✓

QUESTION 2

- 2.1. Reactants ✓
 2.2. Carbon dioxide✓
 2.3. Rusting✓
 2.4. Metal oxide✓
 2.5. Neutralisation reaction✓

QUESTION 3

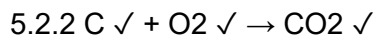
- 3.1. F ✓
 3.2. A ✓
 3.3. B ✓
 3.4. E ✓
 3.5. D ✓
 3.6. G ✓

QUESTION 4

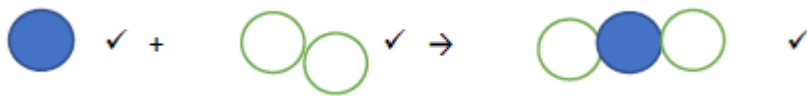
- 4.1.1. The name of the element is magnesium ✓
 There are 12 protons in the nucleus of the atom. ✓
 There is all and all 24 nucleons in the nucleus of the atom. ✓
 The symbol for the element is Mg. ✓
 In a neutral atom there is 12 electrons that surround the nucleus ✓ (any TWO)
 4.1.2. Metal ✓
 4.1.3. $2\text{Mg} + \text{O}_2 \rightarrow 2\text{MgO}$ ✓✓
 4.1.4. The silver ribbon begins to change into a white powdery substance. ✓
 A bright white flame✓ leaving behind a white ash of magnesium oxide.
 4.2.
 4.2.1. $4\text{Fe} \checkmark + 3\text{O}_2 \checkmark \rightarrow 2\text{Fe}_2\text{O}_3 \checkmark(3)$
 4.2.2. Water / H₂O ✓
 4.3. Iron and steel can be painted ✓ to keep away moisture and oxygen. ✓
 Iron and steel can be coated ✓ with a thin layer of chromium or zinc (metals which do not rust). ✓

QUESTION 5

- 5.1.
 5.1.1. Sulfur ✓ + Oxygen ✓ → sulfur dioxide ✓
 5.1.2. H₂SO₃ ✓
 5.2.
 5.2.1. Carbon ✓ + Oxygen ✓ → Carbon dioxide ✓



5.3



QUESTION 6

6.1. Fill in the missing words

(7)

Chemical formula	Names of elements in the substance	Name of compound	Fixed ratio of elements
NaCl	Sodium and Chlorine	Sodium Chloride	1 Sodium : 1 Chlorine
Li ₂ O	6.1.1 Lithium ✓ 6.1.2 Oxygen ✓	6.1.3 Lithium oxide	6.1.4 2Lithium: 1oxygen ✓
NH ₃	6.1.5 Nitrogen ✓ 6.1.6 Hydrogen ✓	Ammonia	6.1.7 1 Nitrogen 3 Hydrogen ✓

6.2. Study the key below and write down the formulas for the represented compounds below:

(2)

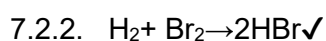
		6.2.1 ✓ NO₃
		6.2.2 ✓ HNO₃

QUESTION 7

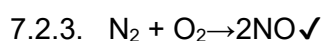
7.1. A✓



(2)



(1)



(1)

QUESTION 8

8.1 Acidity level of a substance✓

8.2 acids✓

8.3 bases✓

8.4 red onion✓/cabbage, tea, turmeric solution (any one)

8.5 neutralisation✓

8.6 increases✓

8.7.1 Group B (base) ✓

8.7.2. Group A (acid) ✓

QUESTION 9

9.1. HCl ✓

9.1.2. Hydrogen✓ H_2 ✓

9.2.2 A glowing splint produces a squeaky pop sound in the presence of the gas✓

9.2.3. Magnesium chloride✓ $MgCl_2$ ✓