

**Paper B**

**The Examination Paper of**

**Chemistry**

Major and Class

Full Name

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| Question No. | 1 | 2 | 3 | 4 | 5 | Total Points |
| Actual Points |  |  |  |  |  |  |
| Examiners |  | | | | | |

1. (20 marks, 2.5 marks each)

Write formulae for the following substances:

Sulfur dioxide , Nitrogen ,

Nitric acid , Potassium hydroxide .

Write acceptable names for the following compounds:

Ca(OH)2 ， Ca(HCO3)2 ，

H2CO3 ， CuSO4 .

2. Please balance the following reaction. (10 marks, 5 marks each)

(1) NH3 + O2  → NO + H2O

(2) Na + H2O → NaOH + H2

3. Explain what are mixture and compound, and give an example for each of them. (10 marks)

4. What are oxidation-reduction reaction? Give an example. (10 marks)

5. Calculate the percent composition of the oxygen elements in NaHCO3. (10 marks)

（Atomic weight: Na 23 g/mol，H 1g/mol，C 12 g/mol，O 16 g/mol）

(End of exam paper)