

**C. C. C. Heep Woh College**  
**Form 4 Chemistry Quiz 5**  
**Unit 9 Reactivity of Metals**

Suggested Answer

- |    |        |   |            |
|----|--------|---|------------|
| 1. | (a)    | <b><u>The higher reactivity metal displaces the lower one.</u></b>  | <b>1</b>   |
|    | (b)    | <b><u>Sodium, strontium, nickel, cobalt, copper</u></b>             | <b>1</b>   |
|    | (c)(i) | <b><u>B displaced all the metals ---- highest in reactivity</u></b> | <b>1+½</b> |
|    |        | <b><u>A cannot ---- lowest in reactivity</u></b>                    | <b>1+½</b> |
|    | (ii)   | <b>A: Silver</b>  | <b>1</b>   |
|    |        | <b>B: Potassium</b>   | <b>1</b>   |
|    | (iii)  | <b>A: Too expensive</b>   | <b>1</b>   |
|    |        | <b>B: Too high reactivity</b>                                       | <b>1</b>   |
| 2. | (a)    | <b>Potassium</b>  | <b>1</b>   |
|    |        | <b>Dangerous, cause explosion</b>                                   | <b>1</b>   |
|    |        | <b>Silver</b>   | <b>1</b>   |
|    |        | <b>No reaction</b>  | <b>1</b>   |
|    | (b)(i) | <b>Aluminium</b>  | <b>1</b>   |
|    |        | <b>Oxide layer prevent the metal from reacting with air</b>         | <b>1</b>   |
| 3. | (a)    | <b><u>No reaction.</u></b>  | <b>1</b>   |
|    | (b)    | <b><u>2K + 2H<sub>2</sub>O → 2KOH + H<sub>2</sub></u></b>           | <b>1</b>   |
|    | (c)    | <b><u>2Zn + O<sub>2</sub> → 2ZnO</u></b>                            | <b>1</b>   |
|    | (d)    | <b><u>2Al + 6HCl → 2AlCl<sub>3</sub> + 3H<sub>2</sub></u></b>       | <b>1</b>   |
|    | (e)    | <b><u>Fe + H<sub>2</sub>O → FeO + H<sub>2</sub></u></b>             | <b>1</b>   |

**The End**