YUKON CHEMISTRY 11 (MCH--11) · UNIT C · 5 QUESTIONS

Chemical Reactions and Stoichiometry — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **Which equation is a balanced synthesis reaction**

- **A** $N_2 + 3H_2 \rightarrow 2NH_3$
- **B** $N_2 + H_2 \rightarrow 2NH_3$
- **C** $N_2 + 3H_2 \rightarrow NH_3$
- **D** $2N_2 + 3H_2 \rightarrow 2NH_3$

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2 **Which equation is a balanced single replacement reaction**

- **A** $Zn + 2HCl \rightarrow ZnCl_2 + H_2$
- **B** $Zn + HCl \rightarrow ZnCl_2 + H_2$
- **C** $Zn + 2HCl \rightarrow ZnCl + H_2$
- **D** $2Zn + HCl \rightarrow ZnCl_2 + H_2$

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3 **Which equation is a balanced combustion reaction for ethane**

- **A** $C_2H_6+7O_2 \rightarrow 2CO_2+3H_2O$
- **B** $2C_2H_6+7O_2 \rightarrow 4CO_2+3H_2O$
- **C** $C_2H_6+3O_2 \rightarrow 2CO_2+3H_2O$
- **D** $2C_2H_6+7O_2 \rightarrow 4CO_2+6H_2O$

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4 **Scuba diver swimming underwater with a silver oxygen tank on their back, clear blue water, sunlight from above. When hydrogen peroxide breaks down into water and oxygen, the reaction type is**



A synthesis

B combustion

C decomposition

D double replacement

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5 **When copper displaces silver from silver nitrate solution, the reaction type is**

A synthesis

B single replacement

C decomposition

D combustion

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ANSWER KEY

1. A
2. A
3. D
4. C
5. B

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