ARKANSAS CHEMISTRY · UNIT 2 · 10 QUESTIONS

Bonding and Chemical Reactions — 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 **An endothermic reaction absorbs energy, so the products have**

- A Less energy than the reactants
- B More energy than the reactants
- C Equal energy always
- D No energy

Understand It with Pulse | Flag a mistake

2 **The pH scale measures hydrogen ion concentration, and a solution with pH 3 is**

- A Basic
- B Neutral
- C Acidic
- D Pure water

Understand It with Pulse | Flag a mistake

3 **A solution with pH 11 is**

- A Acidic
- B Neutral
- C Pure water only
- D Basic

Understand It with Pulse | Flag a mistake

4 **Neutralisation of hydrochloric acid with sodium hydroxide produces sodium chloride and**

- A Water
- B Hydrogen gas
- C Oxygen gas
- D Carbon dioxide

Understand It with Pulse | Flag a mistake

5 **An oxidation reaction involves loss of electrons, while reduction involves**

- A Loss of protons
- B Gain of electrons
- C Gain of protons
- D Loss of neutrons

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6 **Balance H_2 plus O_2 gives H_2O, what coefficient is needed in front of H_2O when the equation is balanced as 2 H_2 plus O_2 gives H_2O**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **Balance CH_4 plus O_2 gives CO_2 plus H_2O, what coefficient is needed in front of O_2**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **A gas is produced in a reaction when bubbles are seen and the gas can be tested, for example carbon dioxide turns limewater**

A Milky

B Blue

C Clear again

D Red

Understand It with Pulse | Flag a mistake

9 **A colour change, gas production, precipitate formation, or temperature change can all indicate that a**

- A Physical change only
- B Chemical reaction has occurred
- C Mixture has formed
- D Solution has frozen

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10 **Intermolecular forces act between molecules, whereas covalent bonds act**

- A Between nuclei only
- B Between protons
- C Within a molecule
- D Outside matter

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	B	**5.**	B	**9.**	B
2.	C	**6.**	2	**10.**	C
3.	D	**7.**	2		
4.	A	**8.**	A		

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