ARIZONA 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 **The name of the compound $CaBr_2$ is**

- A Calcium dibromide
- B Calcium bromine
- C Dicalcium bromide
- D Calcium bromide

Understand It with Pulse | Flag a mistake

2 **The formula of aluminum oxide is**

A AlO

B Al_2O_3

C Al_3O_2

D AlO_2

Understand It with Pulse | Flag a mistake

3 **Carbon has atomic number 6. How many valence electrons does a carbon atom have**

A 2

B 4

C 6

D 3

Understand It with Pulse | Flag a mistake

4 **The two nitrogen atoms in a nitrogen molecule are joined by a**

- **A** Single bond
- **B** Double bond
- **C** Triple bond
- **D** Metallic bond

Understand It with Pulse | Flag a mistake

5 **The reaction**
$BaCl_2 + Na_2SO_4 \rightarrow BaSO_4 + 2NaCl$
is best described as

- **A** Synthesis
- **B** Combustion
- **C** Double displacement
- **D** Single displacement

Understand It with Pulse | Flag a mistake

6 **The oxidation number of chromium in chromium oxide, Cr_2O_3, is _____**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **Hydrogen bonding can occur when hydrogen is bonded to**

A Nitrogen, oxygen, or fluorine

B Carbon only

C Sulfur only

D Any metal

Understand It with Pulse | Flag a mistake

8 **Which substance is a covalent network solid**

A Sodium chloride

B Water

C Carbon dioxide

D Diamond

Understand It with Pulse | Flag a mistake

9 **The total number of valence electrons in a carbon dioxide molecule, CO_2, is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **The shape of a sulfur dioxide molecule, SO_2, is**

A Linear

B Tetrahedral

C Bent

D Trigonal planar

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	D	**5.**	C	**9.**	16
2.	B	**6.**	3	**10.**	C
3.	B	**7.**	A		
4.	C	**8.**	D		

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