ALASKA 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 so it can be fixed.

1

In the reaction $AgNO_3 + NaCl \rightarrow AgCl + NaNO_3$, the reaction type is

A synthesis

B decomposition

C single displacement

D double displacement

Understand It with Pulse

Flag a mistake

2 **A polar bond forms between atoms with**

A a large difference in electronegativity

B identical electronegativity

C the same atomic number

D no valence electrons

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3 **The number of shared electron pairs in an oxygen molecule, O_2, is _____**

ANSWER

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4 **An oxygen atom needs this many more electrons to complete its outer shell**

A 1

B 2

C 4

D 6

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5 **The main intermolecular force between nonpolar molecules is**

A hydrogen bonding

B ionic bonding

C London dispersion forces

D metallic bonding

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6 **The oxidation number of chlorine in hydrogen chloride, HCl, is ____**

ANSWER _____

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7 **The name of the compound Fe_2O_3 is**

A iron oxide

B iron(II) oxide

C iron(III) oxide

D diiron trioxide

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8 **Which of these is a combustion reaction**

A zinc displacing copper

B calcium carbonate breaking down

C silver nitrate reacting with salt

D methane burning in oxygen

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9 **In the balanced equation 2Mg + ____ O_2 → 2MgO, the coefficient of oxygen is ____**

ANSWER _____

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10 **Diamond is hard because its carbon atoms are**

A in separate molecules

B joined in a strong covalent network

C held by weak forces only

D free to move past each other

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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