DELAWARE CHEMISTRY · UNIT 2 · 25 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 **Which term is defined as follows: a bond formed by transfer of electrons between a metal and a nonmetal?**

- A ionic bond
- B covalent bond
- C polar bond
- D hydrogen bond

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2 **Which of the following is an example of ionic bond?**

A the bonds inside a water molecule

B sodium chloride held by opposite charges

C the oxygen hydrogen bond in water

D the attraction between water molecules

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3 **Which statement best describes ionic bond?**

A covalent bonds hold atoms together in molecules

B polar bonds arise from differences in electronegativity

C ionic compounds form crystal lattices

D hydrogen bonds explain many properties of water

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4 **Which term is defined as follows: a bond formed by sharing electrons?**

A ionic bond

B covalent bond

C polar bond

D hydrogen bond

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5 **Which of the following is an example of covalent bond?**

A sodium chloride held by opposite charges

B the oxygen hydrogen bond in water

C the bonds inside a water molecule

D the attraction between water molecules

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6 **Which statement best describes covalent bond?**

A ionic compounds form crystal lattices

B polar bonds arise from differences in electronegativity

C hydrogen bonds explain many properties of water

D covalent bonds hold atoms together in molecules

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7 **Which term is defined as follows: a covalent bond with unequal sharing of electrons?**

A ionic bond

B covalent bond

C polar bond

D hydrogen bond

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8 **Which of the following is an example of polar bond?**

A sodium chloride held by opposite charges

B the bonds inside a water molecule

C the attraction between water molecules

D the oxygen hydrogen bond in water

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9 **Which statement best describes polar bond?**

A polar bonds arise from differences in electronegativity

B ionic compounds form crystal lattices

C covalent bonds hold atoms together in molecules

D hydrogen bonds explain many properties of water

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10 **Which term is defined as follows: a weak attraction between a hydrogen atom and a strongly electronegative atom?**

A ionic bond

B covalent bond

C polar bond

D hydrogen bond

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11 **Which of the following is an example of hydrogen bond?**

A the attraction between water molecules

B sodium chloride held by opposite charges

C the bonds inside a water molecule

D the oxygen hydrogen bond in water

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12 **Which statement best describes hydrogen bond?**

- A ionic compounds form crystal lattices
- B hydrogen bonds explain many properties of water
- C covalent bonds hold atoms together in molecules
- D polar bonds arise from differences in electronegativity

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13 **Which term is defined as follows: a process that rearranges atoms into new substances?**

- A chemical reaction
- B ionic bond
- C covalent bond
- D polar bond

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14 **Which of the following is an example of chemical reaction?**

A sodium chloride held by opposite charges

B burning wood to form ash and gases

C the bonds inside a water molecule

D the oxygen hydrogen bond in water

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15 **Which statement best describes chemical reaction?**

A ionic compounds form crystal lattices

B covalent bonds hold atoms together in molecules

C reactions conserve atoms and mass

D polar bonds arise from differences in electronegativity

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16 **Which term is defined as follows: a starting substance in a reaction?**

A ionic bond

B reactant

C covalent bond

D polar bond

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17 **Which of the following is an example of reactant?**

A sodium chloride held by opposite charges

B the bonds inside a water molecule

C hydrogen gas before it reacts with oxygen

D the oxygen hydrogen bond in water

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18 **Which statement best describes reactant?**

A ionic compounds form crystal lattices

B covalent bonds hold atoms together in molecules

C polar bonds arise from differences in electronegativity

D reactants appear on the left of an equation

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19 **Which term is defined as follows: a substance formed in a reaction?**

A ionic bond

B covalent bond

C product

D polar bond

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20 **Which of the following is an example of product?**

A sodium chloride held by opposite charges

B the bonds inside a water molecule

C the oxygen hydrogen bond in water

D water formed from hydrogen and oxygen

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21 **Which statement best describes product?**

A products appear on the right of an equation

B ionic compounds form crystal lattices

C covalent bonds hold atoms together in molecules

D polar bonds arise from differences in electronegativity

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22 **Which term is defined as follows: a reaction where two substances combine into one?**

A ionic bond

B covalent bond

C polar bond

D synthesis reaction

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23 **Which of the following is an example of synthesis reaction?**

A hydrogen + oxygen forming water

B sodium chloride held by opposite charges

C the bonds inside a water molecule

D the oxygen hydrogen bond in water

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24 **Which statement best describes synthesis reaction?**

A ionic compounds form crystal lattices

B synthesis builds a larger substance from smaller ones

C covalent bonds hold atoms together in molecules

D polar bonds arise from differences in electronegativity

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25 **Which term is defined as follows: a reaction where one substance breaks into two or more?**

A decomposition reaction

B ionic bond

C covalent bond

D polar bond

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ANSWER KEY

1. A
2. B
3. C
4. B
5. C
6. D
7. C
8. D
9. A
10. D
11. A
12. B
13. A
14. B
15. C
16. B
17. C
18. D
19. C
20. D
21. A
22. D
23. A
24. B
25. A

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