CONNECTICUT 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 matches this description: a bond formed by transfer of electrons**

- A Ionic bond
- B Covalent bond
- C Metallic bond
- D Polar bond

Understand It with Pulse | Flag a mistake

2 **Which term matches this description: a bond formed by sharing electrons**

A Metallic bond

B Covalent bond

C Polar bond

D Hydrogen bond

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3 **Which term matches this description: a bond among metal atoms with free electrons**

A Polar bond

B Hydrogen bond

C Metallic bond

D Chemical reaction

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4 **Which term matches this description: a bond with unequal sharing of electrons**

- A Hydrogen bond
- B Chemical reaction
- C Reactant
- D Polar bond

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5 **Which term matches this description: a weak attraction involving hydrogen and a very electronegative atom**

- A Hydrogen bond
- B Chemical reaction
- C Reactant
- D Product

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6 **Which term matches this description: a process forming new substances**

A Reactant

B Chemical reaction

C Product

D Synthesis reaction

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7 **Which term matches this description: a starting substance in a reaction**

A Product

B Synthesis reaction

C Reactant

D Decomposition reaction

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8 **Which term matches this description: a substance formed in a reaction**

A Synthesis reaction

B Decomposition reaction

C Single replacement

D Product

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9 **Which term matches this description: a reaction combining substances into one product**

A Synthesis reaction

B Decomposition reaction

C Single replacement

D Double replacement

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10 **Which term matches this description: a reaction breaking one substance into simpler ones**

A Single replacement

B Decomposition reaction

C Double replacement

D Combustion

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11 **Which term matches this description: a reaction where one element replaces another**

A Double replacement

B Combustion

C Single replacement

D Catalyst

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12 **Which term matches this description: a reaction where two compounds exchange partners**

A Combustion

B Catalyst

C Activation energy

D Double replacement

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13 **Which term matches this description: a reaction with oxygen producing heat and light**

A Combustion

B Catalyst

C Activation energy

D Exothermic reaction

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14 **Which term matches this description: a substance speeding a reaction without being used up**

A Activation energy

B Catalyst

C Exothermic reaction

D Endothermic reaction

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15 **Which term matches this description: the minimum energy needed to start a reaction**

A Exothermic reaction

B Endothermic reaction

C Activation energy

D Precipitate

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16 **Which term matches this description: a reaction releasing energy**

A Endothermic reaction

B Precipitate

C Oxidation

D Exothermic reaction

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17 **Which term matches this description: a reaction absorbing energy**

A Endothermic reaction

B Precipitate

C Oxidation

D Reduction

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18 **Which term matches this description: a solid formed in a solution during a reaction**

A Oxidation

B Precipitate

C Reduction

D Ionic bond

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19 **Which term matches this description: loss of electrons in a reaction**

A Reduction

B Ionic bond

C Oxidation

D Covalent bond

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20 **Which term matches this description: gain of electrons in a reaction**

- A Ionic bond
- B Covalent bond
- C Metallic bond
- D Reduction

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21 **Which statement about Ionic bond is correct**

- A a bond formed by transfer of electrons
- B a bond formed by sharing electrons
- C a bond among metal atoms with free electrons
- D a bond with unequal sharing of electrons

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22 **Which statement about Covalent bond is correct**

A a bond among metal atoms with free electrons

B a bond formed by sharing electrons

C a bond with unequal sharing of electrons

D a weak attraction involving hydrogen and a very electronegative atom

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23 **Which statement about Metallic bond is correct**

A a bond with unequal sharing of electrons

B a weak attraction involving hydrogen and a very electronegative atom

C a bond among metal atoms with free electrons

D a process forming new substances

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24 **Which statement about Polar bond is correct**

A a weak attraction involving hydrogen and a very electronegative atom

B a process forming new substances

C a starting substance in a reaction

D a bond with unequal sharing of electrons

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25 **Which statement about Hydrogen bond is correct**

A a weak attraction involving hydrogen and a very electronegative atom

B a process forming new substances

C a starting substance in a reaction

D a substance formed in a reaction

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ANSWER KEY

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

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