CONNECTICUT CHEMISTRY · UNIT 4 · 25 QUESTIONS

Gases, Thermodynamics, and Equilibrium — 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: force per unit area**

- A Pressure
- B Boyle law
- C Charles law
- D Ideal gas

Understand It with Pulse | Flag a mistake

2 **Which term matches this description: pressure times volume is constant at fixed temperature**

- A Charles law
- B Boyle law
- C Ideal gas
- D Kinetic theory

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3 **Which term matches this description: volume over temperature is constant at fixed pressure**

- A Ideal gas
- B Kinetic theory
- C Charles law
- D Temperature

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4 **Which term matches this description: a gas following the gas laws exactly**

- A Kinetic theory
- B Temperature
- C Absolute zero
- D Ideal gas

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5 **Which term matches this description: matter as particles in constant motion**

- A Kinetic theory
- B Temperature
- C Absolute zero
- D Equilibrium

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6 **Which term matches this description: a measure of average kinetic energy**

A Absolute zero

B Temperature

C Equilibrium

D Le Chatelier principle

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7 **Which term matches this description: the lowest possible temperature**

A Equilibrium

B Le Chatelier principle

C Absolute zero

D Entropy

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8 **Which term matches this description: a state where forward and reverse rates are equal**

- A Le Chatelier principle
- B Entropy
- C Enthalpy
- D Equilibrium

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9 **Which term matches this description: a system shifting to counter a change**

- A Le Chatelier principle
- B Entropy
- C Enthalpy
- D Spontaneous process

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10 **Which term matches this description: a measure of disorder in a system**

A Enthalpy

B Entropy

C Spontaneous process

D Endothermic process

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11 **Which term matches this description: heat content of a system at constant pressure**

A Spontaneous process

B Endothermic process

C Enthalpy

D Exothermic process

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12 **Which term matches this description: a process occurring without outside energy input**

A Endothermic process

B Exothermic process

C Vapor pressure

D Spontaneous process

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13 **Which term matches this description: a process absorbing heat**

A Endothermic process

B Exothermic process

C Vapor pressure

D Boiling point

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14 **Which term matches this description: a process releasing heat**

A Vapor pressure

B Exothermic process

C Boiling point

D Melting point

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15 **Which term matches this description: pressure from vapor above a liquid**

A Boiling point

B Melting point

C Vapor pressure

D Phase change

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16 **Which term matches this description: the temperature where vapor pressure equals outside pressure**

A Melting point

B Phase change

C Sublimation

D Boiling point

Understand It with Pulse | Flag a mistake

17 **Which term matches this description: the temperature where a solid becomes a liquid**

A Melting point

B Phase change

C Sublimation

D Condensation

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18 **Which term matches this description: a change between states of matter**

A Sublimation

B Phase change

C Condensation

D Pressure

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19 **Which term matches this description: a change directly from solid to gas**

A Condensation

B Pressure

C Sublimation

D Boyle law

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20 **Which term matches this description: a change from gas to liquid**

- A Pressure
- B Boyle law
- C Charles law
- D Condensation

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21 **Which statement about Pressure is correct**

- A force per unit area
- B pressure times volume is constant at fixed temperature
- C volume over temperature is constant at fixed pressure
- D a gas following the gas laws exactly

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22 **Which statement about Boyle law is correct**

A volume over temperature is constant at fixed pressure

B pressure times volume is constant at fixed temperature

C a gas following the gas laws exactly

D matter as particles in constant motion

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23 **Which statement about Charles law is correct**

A a gas following the gas laws exactly

B matter as particles in constant motion

C volume over temperature is constant at fixed pressure

D a measure of average kinetic energy

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24 **Which statement about Ideal gas is correct**

A matter as particles in constant motion

B a measure of average kinetic energy

C the lowest possible temperature

D a gas following the gas laws exactly

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25 **Which statement about Kinetic theory is correct**

A matter as particles in constant motion

B a measure of average kinetic energy

C the lowest possible temperature

D a state where forward and reverse rates are equal

Understand It with Pulse | Flag a mistake

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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