DELAWARE CHEMISTRY · UNIT 4 · 10 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 is defined as follows: a system shifts to counteract a change?**

- A pressure
- B Boyle's law
- C Le Chatelier's principle
- D Charles's law

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2 **Which of the following is an example of Le Chatelier's principle?**

A a tire pressing on the road

B squeezing a balloon raises its pressure

C a balloon expanding when heated

D adding reactant shifts a reaction toward products

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3 **Which statement best describes Le Chatelier's principle?**

A Le Chatelier's principle predicts the direction of a shift

B gas pressure comes from particle collisions with walls

C Boyle's law is an inverse relationship

D Charles's law uses kelvin temperatures

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4 **Which term is defined as follows: a substance that donates hydrogen ions?**

A pressure

B Boyle's law

C Charles's law

D acid

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5 **Which of the following is an example of acid?**

A vinegar in a kitchen

B a tire pressing on the road

C squeezing a balloon raises its pressure

D a balloon expanding when heated

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6 **Which statement best describes acid?**

A gas pressure comes from particle collisions with walls

B acids have pH below 7 in water

C Boyle's law is an inverse relationship

D Charles's law uses kelvin temperatures

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7 **Which term is defined as follows: a substance that accepts hydrogen ions?**

A base

B pressure

C Boyle's law

D Charles's law

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8 **Which of the following is an example of base?**

A a tire pressing on the road

B baking soda solution

C squeezing a balloon raises its pressure

D a balloon expanding when heated

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9 **Which statement best describes base?**

A gas pressure comes from particle collisions with walls

B Boyle's law is an inverse relationship

C bases have pH above 7 in water

D Charles's law uses kelvin temperatures

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10 **Which term is defined as follows: an acid and base reacting to form a salt and water?**

A pressure

B neutralization

C Boyle's law

D Charles's law

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ANSWER KEY

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

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