Gases, Thermodynamics, and Equilibrium, 5-question test — Practice Test

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1 **A stainless steel pressure cooker sits on a gas stove burner. Gas pressure is caused by gas particles**



- **A** colliding with the walls of the container
- **B** bonding to the container
- **C** freezing in place

D dissolving in the container

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2 **A gas at 200 kPa occupies 3 L. At the same temperature, at 100 kPa, its volume, in liters, is ____**

Question 2

A gas at 200 kPa occupies 3 L. At the same temperature, at 100 kPa, its volume, in liters, is ____

ANSWER _____

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3 A temperature of 25 degrees Celsius is equal to

Question 3

A temperature of 25 degrees Celsius is equal to

A) 273 K

B) 298 K

C) 250 K

D) 325 K

- A 273 K
- B 298 K
- C 250 K
- D 325 K

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4 A gas occupies 4 L at 273 K. At constant pressure, at 546 K, its volume, in liters, is ____

Question 4

A gas occupies 4 L at 273 K. At constant pressure, at 546 K, its volume, in liters, is ____

ANSWER _____

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5 Gas particles diffuse faster at higher temperature because they have

Question 5

Gas particles diffuse faster at higher temperature because they have

A) less energy

B) more mass

C) more kinetic energy

D) fewer collisions

- **A** less energy
- **B** more mass
- **C** more kinetic energy
- **D** fewer collisions

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ANSWER KEY

1. A
2. 6
3. B
4. 8
5. C

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