ALBERTA CHEMISTRY 20 · UNIT B · 5 QUESTIONS

Forms of Matter: Gases — 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 **A temperature of 35°C is equivalent to**

- **A** 273 K
- **B** 308 K
- **C** 238 K
- **D** 335 K

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2 **A stainless steel pressure cooker on a gas stove burner. A gas pressure of 1520 mmHg is equivalent to Use 760 mmHg = 1.00 atm.**



A 0.500 atm

B 1.00 atm

C 2.00 atm

D 4.00 atm

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3 **The kelvin temperature of a fixed amount of gas is doubled while the pressure is held constant. As a result, the volume of the gas**

A Doubles

B Is halved

C Increases by a factor of four

D Does not change

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4 **The pressure-temperature graph below is for a fixed amount of gas at constant volume. What is the pressure of the gas when its temperature is 300 K?**

A 100 kPa

B 150 kPa

C 200 kPa

D 300 kPa

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5 **A syringe contains 1.5 L of gas at 27°C. At constant pressure, the gas is heated to 327°C. The new volume of the gas is**

- A 18 L
- B 0.75 L
- C 1.7 L
- D 3.0 L

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ANSWER KEY

1. B
2. C
3. A
4. B
5. D

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