CALIFORNIA CHEMISTRY · UNIT 3 · 10 QUESTIONS

Stoichiometry, Solutions, and 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 **Boyle law states that at constant temperature, as the volume of a gas decreases, its pressure**

- A Decreases
- B Becomes zero
- C Increases
- D Stays the same

Understand It with Pulse | Flag a mistake

2 **Charles law states that at constant pressure, as the temperature of a gas in kelvin increases, its volume**

A Increases

B Decreases

C Becomes zero

D Stays the same

Understand It with Pulse | Flag a mistake

3 **At standard temperature and pressure, the volume, in litres, of 0.5 mol of gas is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A reaction has a theoretical yield of 50 g and an actual yield of 25 g The percent yield is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **A limiting reactant is the reactant that**

A Is a catalyst

B Is used up first and limits the amount of product

C Does not react

D Is in excess

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6 **In a solution, the substance dissolved is called the**

A Solute

B Suspension

C Colloid

D Solvent

Understand It with Pulse | Flag a mistake

7 **A concentrated solution compared with a dilute solution of the same solute has**

A Less solute per volume

B Only solvent

C No solute

D More solute per volume

Understand It with Pulse | Flag a mistake

8 **At the same temperature, a gas with a smaller molar mass generally diffuses**

A Not at all

B Faster

C Slower

D At the same rate always

Understand It with Pulse | Flag a mistake

9 **When a gas is heated at constant pressure, its volume increases because its molecules**

A Move faster and take up more space

B Stop colliding

C Condense

D Shrink

Understand It with Pulse | Flag a mistake

10 **A gas occupies 44.8 L at standard temperature and pressure The number of moles of gas, using 22.4 L per mole, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	C	**5.**	B	**9.**	A
2.	A	**6.**	A	**10.**	2
3.	11.2	**7.**	D		
4.	50	**8.**	B		

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