ARIZONA CHEMISTRY · UNIT 3 · 10 QUESTIONS

Stoichiometry and Solutions — 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 balanced equation conserves**

- A Atoms
- B Temperature
- C Pressure
- D Colour

Understand It with Pulse | Flag a mistake

2 **Magnesium oxide has molar mass 40 grams per mole. The mass, in grams, of 2.5 mol of magnesium oxide is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A percent yield below 100 can result from**

A Using too much reactant

B Using a catalyst

C Heating too slowly

D Product lost during separation

Understand It with Pulse | Flag a mistake

4 **At standard temperature and pressure, the volume, in liters, of 1.5 mol of gas is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **In salt water, the solute is**

- A Air
- B Salt
- C Water
- D The container

Understand It with Pulse | Flag a mistake

6 **Oxygen gas has molar mass 32 grams per mole. The number of moles in 64 g of oxygen gas is _____**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **A molecular formula differs from an empirical formula because it gives**

- A Only the mass
- B Only the charge
- C The actual numbers of atoms
- D Only the simplest ratio

Understand It with Pulse | Flag a mistake

8 **Glucose has molar mass 180 grams per mole. The mass, in grams, of 0.2 mol of glucose is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 When a solution is diluted, the number of moles of solute

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

Understand It with Pulse | Flag a mistake

10 **In the reaction**
$2H_2 + O_2 \rightarrow 2H_2O$,
starting with 1 mol of hydrogen, the maximum mass of water, in grams, is ____

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	A	**5.**	B	**9.**	A
2.	100	**6.**	2	**10.**	18
3.	D	**7.**	C		
4.	33.6	**8.**	36		

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