CONNECTICUT CHEMISTRY · UNIT 3 · 25 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 **Which term matches this description: the amount containing Avogadro number of particles**

A Mole

B Molar mass

C Stoichiometry

D Limiting reactant

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2 **Which term matches this description: the mass of one mole of a substance**

A Stoichiometry

B Molar mass

C Limiting reactant

D Excess reactant

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3 **Which term matches this description: using mole ratios to calculate reaction quantities**

A Limiting reactant

B Excess reactant

C Stoichiometry

D Percent yield

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4 **Which term matches this description: the reactant used up first in a reaction**

A Excess reactant

B Percent yield

C Theoretical yield

D Limiting reactant

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5 **Which term matches this description: a reactant remaining after a reaction**

A Excess reactant

B Percent yield

C Theoretical yield

D Actual yield

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6 **Which term matches this description: actual yield divided by theoretical yield times 100**

- A Theoretical yield
- B Percent yield
- C Actual yield
- D Balanced equation

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7 **Which term matches this description: the maximum product possible from given reactants**

- A Actual yield
- B Balanced equation
- C Theoretical yield
- D Coefficient

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8 **Which term matches this description: the product actually obtained in a reaction**

- A Balanced equation
- B Coefficient
- C Solution
- D Actual yield

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9 **Which term matches this description: an equation with equal atoms on both sides**

- A Balanced equation
- B Coefficient
- C Solution
- D Solute

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10 **Which term matches this description: a number in front of a formula in an equation**

- A Solution
- B Coefficient
- C Solute
- D Solvent

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11 **Which term matches this description: a uniform mixture of solute and solvent**

- A Solute
- B Solvent
- C Solution
- D Concentration

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12 **Which term matches this description: the substance dissolved in a solution**

A Solvent

B Concentration

C Molarity

D Solute

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13 **Which term matches this description: the substance doing the dissolving**

A Solvent

B Concentration

C Molarity

D Dilution

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14 **Which term matches this description: the amount of solute per amount of solution**

A Molarity

B Concentration

C Dilution

D Acid

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15 **Which term matches this description: moles of solute per liter of solution**

A Dilution

B Acid

C Molarity

D Base

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16 **Which term matches this description: adding solvent to lower concentration**

A Acid

B Base

C Neutralization

D Dilution

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17 **Which term matches this description: a substance producing hydrogen ions in water**

A Acid

B Base

C Neutralization

D pH

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18 **Which term matches this description: a substance producing hydroxide ions in water**

A Neutralization

B Base

C pH

D Mole

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19 **Which term matches this description: an acid base reaction forming salt and water**

A pH

B Mole

C Neutralization

D Molar mass

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20 **Which term matches this description: a measure of hydrogen ion concentration**

- A Mole
- B Molar mass
- C Stoichiometry
- D pH

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21 **Which statement about Mole is correct**

- A the amount containing Avogadro number of particles
- B the mass of one mole of a substance
- C using mole ratios to calculate reaction quantities
- D the reactant used up first in a reaction

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22 **Which statement about Molar mass is correct**

A using mole ratios to calculate reaction quantities

B the mass of one mole of a substance

C the reactant used up first in a reaction

D a reactant remaining after a reaction

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23 **Which statement about Stoichiometry is correct**

A the reactant used up first in a reaction

B a reactant remaining after a reaction

C using mole ratios to calculate reaction quantities

D actual yield divided by theoretical yield times 100

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24 **Which statement about Limiting reactant is correct**

- A a reactant remaining after a reaction
- B actual yield divided by theoretical yield times 100
- C the maximum product possible from given reactants
- D the reactant used up first in a reaction

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25 **Which statement about Excess reactant is correct**

- A a reactant remaining after a reaction
- B actual yield divided by theoretical yield times 100
- C the maximum product possible from given reactants
- D the product actually obtained in a reaction

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ANSWER KEY

1. A
2. B
3. C
4. D
5. A
6. B
7. C
8. D
9. A
10. B
11. C
12. D
13. A
14. B
15. C
16. D
17. A
18. B
19. C
20. D
21. A
22. B
23. C
24. D
25. A

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