

Chemistry Assignment

1. What is the SI unit of molar mass?

- a) g/mol
- b) kg/mol
- c) mg/L
- d) mol/L

2. Which of the following has the highest electronegativity?

- a) Lithium
- b) Carbon
- c) Fluorine
- d) Oxygen

3. Avogadro's number is:

- a) 6.022×10^{22}
- b) 6.022×10^{23}
- c) 6.022×10^{24}
- d) 6.022×10^{20}

4. Which quantum number describes the shape of an orbital?

- a) Principal quantum number (n)
- b) Azimuthal quantum number (l)
- c) Magnetic quantum number (m)
- d) Spin quantum number (s)

5. Which law states that the volume of a gas is directly proportional to its temperature at constant pressure?

- a) Boyle's Law
- b) Charles's Law
- c) Dalton's Law
- d) Avogadro's Law

6. Which of the following is a primary alcohol?

- a) 2-Propanol
- b) Ethanol
- c) 2-Methyl-2-propanol
- d) Phenol

7. What is the oxidation state of sulfur in H_2SO_4 ?

- a) +6
- b) +4
- c) +2
- d) 0

8. Which type of reaction occurs when benzene reacts with chlorine in the presence of FeCl_3 ?

- a) Addition
- b) Elimination
- c) Substitution
- d) Oxidation

9. Which polymer is formed by the polymerization of ethene?

- a) PVC
- b) Teflon
- c) Polythene
- d) Nylon

10. Which of the following is an example of a weak electrolyte?

- a) NaCl
- b) HCl
- c) CH_3COOH
- d) KOH

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