

- | | |
|------|-------|
| 1) c | 7) c |
| 2) a | 8) a |
| 3) a | 9) c |
| 4) b | 10) a |
| 5) c | |
| 6) a | |

to sit for n -
This slide, Lecture

$$1) \text{Molarity} = \frac{\text{Solut}}{\text{Solution}} \text{ (mol/L)}$$

$$2) \text{Molality} = \frac{\text{Solut}}{\text{Solvent}} \text{ (mol/kg)}$$

$$3) \text{Normality} = \frac{\text{Solut}}{\text{solution}} \text{ (g eq/L)}$$

$$4) \text{weight percent w/w} = \frac{\text{mass of solute}}{\text{mass of solution}} \times 100$$

$$\text{Volume Percent V/V} = " "$$



FIRST MIDTERM EXAM. 1436 - 1436 H

Group:

FIRST QUESTION

Choose the correct answer (write your answer in the table)

5
to

1. Analytical chemistry deals with methods for the chemical composition of samples.
a. Identifications b. Determination c. Both a and b
2. In order to perform quantitative analysis, one needs to complete analysis
a. Qualitative b. Volumetric c. Gravimetric
3. Gravimetric Method use an technique
a. Mass b. instrumental c. volume
4. For any element atomic mass (amu) equal molar mass
a. grams/mole b. grams c. mole
5. is an invariant measurement of The amount of matter
a. Weight b. Force c. Mass
6. formulas give information only about the simplest ratio between the different elements composing the molecule
a. Empirical b. Molecular c. structure
7. How many moles or mill moles are contained in 2.00 g of pure benzoic acid (C_6H_5COOH)
a. 16.4 mol b. 61.000 mmol c. 0.0164 mol

$$(12 \times 7) + (1 \times 6) + (16 \times 2) = 122$$

$$\frac{2.00}{122} \therefore 0.01639 \text{ mol}$$

1

See next page

8. 117.0 g of NaCl dissolved in 1.00 L of water has an analytical concentration of mol/L
- 2.00 mol/L
 - 0.02 mol/L
 - 0.1 mol/L
9. A unit which defines the number of units of a chemical species
- Mol/L
 - g.eq/L
 - Mole
10. H₂SO₄ sulphurous acid is.....
- Weak electrolyte
 - Strong electrolyte
 - Nonelectrolyte

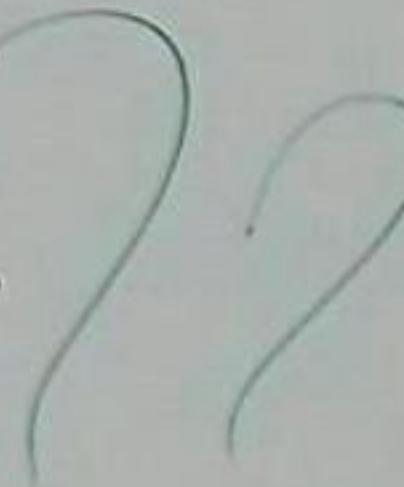
Wt = 2 mol/L

Q = S

Question number	1	2	3	4	5	6	7	8	9	10
Answer	c	a	a	b	c	a	c	a	c	b

SECOND QUESTION

What is ways of expression of concentration?



Element	Mwt	Element	Mwt
H	1	Cl	35.5
C	12	N	14
O	16	Na	23

ALL MY BEST

Dr. safwa asfor