

University of M'sila			2 <sup>St</sup> year CT-NLS
Faculty of Sciences/ CT-NLS			Duration: 15 min
Interrogation of biophysics 2023/2024			
Nom:	First name:	Gr:	Note:

## Interrogation of Chapter I

### Exercise 01

1. Write the relation between the molar and ponderal concentration.
2. Write the relation the osmolar, ionic, and equivalents Concentrations.

### Exercise 02

one liter of an aqueous solution Contains 60g of sucrose, 1.8g of urea, 17.6g of NaCl

1. Calculate the osmolarity concentration of a solution.

$M_{\text{sucrose}} = 342$ ,  $M_{\text{Urea}} = 60$ ,  $M_{\text{NaCl}} = 58.5 \text{ g/mol}$