

# Inorganic and Organic Chemistry - Seminary (CAOS - WS)

## 1. Nomenclature system of Inorganic Chemistry (allowance 0/4)

### 2. Chemical Equations (allowance 0/2)

- The general chemical equation, stoichiometric coefficient of determination
- Redox chemical equation, stoichiometric coefficient of determination

### 3. The composition of the solution (allowance 0/2)

### 4. Stoichiometric calculations (allowance 0/5)

- Calculation according to the chemical equation
- Stoichiometry neutralization titration
- Stoichiometry redox titration

### 5. pH and its calculation (allowance 0/1)

### 6. nomenclature system of organic materials (allowance 0/8)

- Hydrocarbons: alkanes, cyklolakany, alkenes, alkynes. aromatic hydrocarbons
- Alcohols and phenols
- Ethers
- Carbonyl compounds: aldehydes, ketones, hemiacetals
- Carboxylic acids: mono-, di- and tricarboxylic acids, their salts
- Functional derivatives of acids: esters, amides
- Substitution derivatives of acid: hydroxy, oxo acids, amino acids
- Derivatives of carbonic acid
- Organic compounds of nitrogen and sulfur
- Heterocyclic substances

### 7. Nomenclature system of natural materials (allowance 0/6)

- Carbohydrates: monosaccharides, oligosaccharides, polysaccharides
- Peptides
- Nucleic acids
- Lipids: simple, compound
- Terpenes