

# Coaching Report

<b>Participant</b>	student2 s	<b>Student detail</b>	User_59
<b>Group</b>	ntc.hu ats.hu	<b>Status</b>	Ended normally
<b>Assessment name</b>	General Chemistry 1 - EN V4	<b>Final Score</b>	16
<b>Time Used</b>	00:01:05	<b>Time limit (min)</b>	90
<b>Date taken</b>	15-09-2016 18:24:58		

**Questions - presented: 15, answered: 15**

<b>1</b>	<b>What is the correct statement about chemical substances?</b>
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<b>Question type</b>	Multiple Choice
<b>Topic</b>	Atoms and Elements
<b>Difficulty</b>	2/3
<b>Score</b>	0.00
<b>Score max</b>	1
<b>Answer choosen</b>	Pure substances consist of atoms; mixtures consist of molecules.
<b>Answer</b>	<p>0) Pure substances consist of atoms; mixtures consist of molecules.</p> <p>1) Natural substances consist of atoms; synthetic substances consist of molecules.</p> <p>2) Substances which consist of identical</p>

molecules, can be elements or are compounds.

3) Substances, which consist of identical molecules, are always elements.

4) When chemical substances undergo a change in state, the composition of their molecules always changes.

**2** Choose the correct reactant used for the identification of chloride ion Cl<sup>-</sup>.



Question type

Multiple Choice

Topic

Types of Chemical Reactions

Difficulty

2/3

Score

0.00

Score max

1

Answer choosen

not ok

Answer

0) barium chloride

1) sodium hydroxide

2) silver nitrate

3) copper sulfate

4) mercury nitrate

**3** Activity series of metals: Li, K, Na, Mg, Al, Zn, Fe, H, Cu, Ag, Au Pieces of metals are immersed in separate copper sulfate solutions. Which of the following metals are covered with copper ?



Question type

Multiple Response

Topic

Electrochemistry

Difficulty	2/3
Score	2.01
Score max	1
Answer choosen	Magnesium
Answer	0) Iron 1) Magnesium 2) Zinc 3) Gold 4) Silver

**4** When two or more atoms form covalent bonds with each other, the resulting particle can be...



Question type	Multiple Response
Topic	Chemical Bonding
Difficulty	2/3
Score	0.00
Score max	1
Answer choosen	alloy
Answer	0) polyatomic ion 1) molecule 2) salt 3) alloy 4) charged atom

**5** The chemical formula of copper(II) sulfate is...



Question type	Multiple Choice
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Topic	Chemical Bonding
Difficulty	2/3
Score	6.70
Score max	1
Answer choosen	CuSO4
Answer	0) CuS 1) Cu2S 2) Cu2SO4 3) CuSO4 4) Cu(SO4)2

**6** Select three items that are soluble in water



Question type	Multiple Response
Topic	Chemical Bonding
Difficulty	1/3
Score	2.01
Score max	1
Answer choosen	Sodium chloride
Answer	0) Sodium chloride 1) Ammonia NH3 2) Sugar 3) Gold 4) Barium sulfate BaSO4

**7** Which one of the following molecules contains a double bond?



Question type	Multiple Choice
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Topic	Chemical Bonding
Difficulty	1/3
Score	0.00
Score max	1
Answer choosen	H2O
Answer	0) CH <sub>3</sub> CH <sub>3</sub> 1) CH <sub>2</sub> CH <sub>2</sub> 2) CHCH 3) H <sub>2</sub> O 4) CH <sub>4</sub>

**8** Which of the following elements are solid at room temperature under normal atmospheric pressure?



Question type	Multiple Response
Topic	Solid, liquid and gas state
Difficulty	1/3
Score	0.00
Score max	1
Answer choosen	Mercury
Answer	0) Helium 1) Hydrogen 2) Mercury 3) Sodium 4) Lead

**9** The label on a bottle of mineral water purchased in a supermarket shows that this water contains among others the following ions, in milligrams per litre.

From the list, select the alkali metal ions.



Question type	Multiple Response
Topic	Life Span of Materials
Difficulty	1/3
Score	3.35
Score max	1
Answer choosen	Sodium 15
Answer	0) Calcium 114 1) Magnesium 16 2) Potassium 3 3) Chloride 28 4) Sodium 15

**10** Which solution has the highest concentration of OH<sup>-</sup> -ions ? Click the correct letter A-E. Aqueous solution pH value



Question type	Hotspot
Topic	Chemistry in our environment
Difficulty	1/3
Score	0.0
Score max	1
Answer choosen	not ok
Answer	0) 3,29,139,61

**11** Which three groups of following substances are more soluble in water than in nonpolar solvents ?



Question type	Multiple Response
Topic	Organic Chemistry
Difficulty	3/3
Score	2.01
Score max	1
Answer choosen	Disaccharides
Answer	0) Salts 1) Disaccharides 2) Hydrocarbons 3) monosaccharides 4) Fats

**12** Mixing table salt with water produces a



Question type	Multiple Response
Topic	Composition of Matter
Difficulty	3/3
Score	0.00
Score max	1
Answer choosen	emulsion
Answer	0) solution 1) gel 2) mixture 3) suspension 4) emulsion

**13** A metal M forms a sulfate of formula  $M_2(SO_4)_3$ . The nitrate formed by the

same metal would have the formula:



Question type	Multiple Choice
Topic	Metals
Difficulty	3/3
Score	0.00
Score max	1
Answer choosen	M2(NO3)3
Answer	0) M(NO3)3 1) MNO3 2) M2NO3 3) M2(NO3)3 4) M(NO3)2

**14** Select all the solutions from the list that conduct electricity.



Question type	Multiple Response
Topic	Chemical Bonding
Difficulty	3/3
Score	0.00
Score max	1
Answer choosen	Hydrogen chloride in methyl benzene (toluene)
Answer	0) Potassium chloride in water 1) Dilute aqueous sulfuric acid 2) Hydrogen chloride in methyl benzene (toluene) 3) Ethanol in water



4) Iodine in benzene

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Which one of the following elements does not form a stable diatomic molecule

?



Question type

Multiple Choice

Topic

Chemical Bonding

Difficulty

3/3

Score

0.00

Score max

1

Answer choosen

Chlorine

Answer

0) Hydrogen

1) Bromine

2) Chromium

3) Chlorine

4) Iodine