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Coaching Report

Participant	Student Ljubljanski	Student detail	User_52
Group	ntc.at ats.at	Status	Ended normally
Assessment r	name General Chemistry 2 - EN V4	Final Score	65
Time Used	00:05:49	Time limit (min)	15
Date taken	16-09-2016 10:42:47		

Questions - presented: 10, answered: 10

1 Chlorine can be prepared by the reaction:

MnO2 (s) + 4HCl (aq)MnCl2 (aq) + Cl2 (g) + 2H2O (l)

The number of grams of HCI which reacts with 50g of MnO2(s) is

Relative atomic masses: Mn 54.9; O 16.0; CI 35.5; H 1.01



Question type Multiple Choice

Topic Chemistry of elements

Difficulty 2/3

Score 10

Score max 1

Answer choosen 83.90g

Answer 0) 0.575g

1) 2.299g

2) 83.90g

2

All of the following changes release energy except the...



Question type Multiple Choice

Topic Energy

Difficulty 2/3

Score 0

Score max 1

Answer choosen formation of a chemical bond between atoms.

Answer 0) arrangement of ions in a crystal lattice

structure.

1) formation of a chemical bond between

atoms.

2) breaking a chemical bond between atoms.

3) solidification of liquid iron.

4) freezing of water

3

Which of the following solution has the lowest freezing point:



Question type Multiple Choice

Topic States of matter

Difficulty 2/3

Score 10

Score max 1

Answer choosen 0.0080 M HCI(aq)

Answer 0) 0.010 M C6H12O6(aq)

- 1) 0.0080 M HCl(aq)
- 2) 0.0050 M MgCl2(aq)
- 3) 0.0030 M Al2(SO4)3 (aq)
- 4) 0.001 M NaCl(aq)

4

What type of chemical bond would you expect to form between elements 19

and 35?



Question type Multiple Choice

Topic Chemical bonding

Difficulty 2/3

Score 0

Score max 1

Answer choosen polar covalent

Answer 0) ionic

- 1) non-polar covalent
- 2) polar covalent
- 3) coordination
- 4) hydrogen bond

5

S2O32- + 2 H+ S + SO2 + H2O

The rate of above reaction increases when



Question type Multiple Choice

Topic Types of chemical reaction

Difficulty 2/3

Score 10

Score max

Answer choosen concentration of S2O32- increases.

Answer 0) concentration of S2O32- increases.

1

1) the concentration of S2O32- decreases.

2) the concentration of H+ decreases.

3) the concentration of SO2 increases.

4) the concentration of S increases.

6 The oxidation states of nitrogen in Ca3N2, NO2- and Pb(NO3)2 are

respectively:



Question type Multiple Choice

Topic Redox reactions

Difficulty 2/3

Score 10

Score max 1

Answer choosen -3, +3, +5

Answer 0) +2, +1, +2

1) +3, -2, +3

2) -3, +4, +6

3) -3, +3, +5

4) +3, +3, +5

When the base NH3 is titrated with a strong acid, the titration curve



Question type Multiple Response

Topic Acids and bases

Difficulty

Score

5

Score max

1

Answer choosen

is descending

Answer

0) is descending

1) has two inflection (equivalence) points

2) is ascending

3) has only one inflection (equivalence) point

4) has three inflection points

8

Which statement is correct?



Question type Multiple Choice **Topic** Organic chemistry **Difficulty** 2/3 Score 10 1 Score max Answer choosen When an alkanoic (carboxylic) acid reacts with an alcohol water is formed. Answer 0) When an alkanoic (carboxylic) acid reacts with an alcohol water is formed. 1) Butanal is an isomer of butanol. 2) Acetaldehyde and acetone are isomers.



Within a group of elements in the Periodic Table, as the atomic number increases the size of the ions ...

3) 1,2,3-Propanetriol is a toxic alcohol.

4) Benzyl alcohol and phenol are acids.



Question type Multiple Choice

Topic Atomic structure

Difficulty 2/3

Score 10

Score max 1

Answer choosen increases

Answer 0) increases

1) decreases

2) stays the same

3) increases or decreases depending on the

location of the group

4) changes in an irregular way

10

A weak acid, HA, dissociates according to:

HAH+(aq) + A-(aq)

The dissociation constant, Ka, of the acid is 1.010-7moll-1. The approximate

pH of a 0.1moll-1 solution of this acid is:



Question type Multiple Choice

Topic Chemical equilibria

Difficulty 1/3

Score 0

Score max 1

Answer choosen 1

Answer 0) 1

- 1) 2
- 2) 3
- 3) 4
- 4) 5