

Answer Sheet for Sample Problems for Chemistry Level 1 Final Exam 2013-2014 Study Guide

Electrons in Atoms – Chapter 5

1. What is the frequency of green light, which has a wavelength of $4.90 \times 10^{-7} \text{ m}$?

$$c = \lambda \cdot v \quad \lambda = 4.90 \times 10^{-7} \text{ m}, c = 3.00 \times 10^8 \text{ m/s} \quad v = ? \text{ Hz} \quad v = \frac{c}{\lambda} = \frac{3.00 \times 10^8 \text{ m/s}}{4.90 \times 10^{-7} \text{ m}}$$

$6.12 \times 10^{14} \text{ Hz}$

2. An x-ray has a wavelength of $1.15 \times 10^{-10} \text{ m}$. What is its frequency?

$$c = \lambda \cdot v \quad \lambda = 1.15 \times 10^{-10} \text{ m}, c = 3.00 \times 10^8 \text{ m/s} \quad v = ? \text{ Hz} \quad v = \frac{c}{\lambda} = \frac{3.00 \times 10^8 \text{ m/s}}{1.15 \times 10^{-10} \text{ m}}$$

$2.61 \times 10^{21} \text{ Hz}$

3. Which type of electromagnetic radiation has the most energy: Microwaves, X-Rays, or Visible light? Why?

Ans: X-Rays, b/c they have the shortest wavelength and highest frequency of the types listed and frequency and energy are directly related.

4. What is the energy of a $9.50 \times 10^{13} \text{ Hz}$ radiation?

$$E = hv \quad v = 9.50 \times 10^{13} \text{ Hz}, h = 6.626 \times 10^{-34} \text{ Js} \quad E = ? \text{ J}$$

$$E = hv = (6.626 \times 10^{-34} \text{ Js}) \times (9.50 \times 10^{13} \text{ s}^{-1}) = \underline{6.29 \times 10^{-21} \text{ J}}$$

5. The element with the electron configuration of $[\text{Kr}]5s^24d^15p^1$ is Indium (In).

6. Barium (Ba)

7. Write out the electron configurations for the following elements: (For the exam make sure you know how to do both the complete and the noble gas short cut for electron configurations)

a. Tc Ans: $1s^22s^22p^63s^23p^64s^23d^14p^65s^24d^1$ or $[\text{Kr}]5s^24d^1$

b. Aluminum Ans: $1s^22s^22p^63s^23p^1$ or $[\text{Ne}] 3s^23p^1$

8. Why are Cr and Cu exceptions to writing the electron configurations of elements?

They are exceptions because instead of following the pattern of filling up the d orbitals Cr actually has a half filled s and d orbitals and Cu has a half filled s and completely filled d orbitals. The reason why this occurs is because the electrons in the d-sublevel are more stable with this electron configuration than the expected configuration.

9. a. Ca b. As c. Sn

+ + +

a. 2 Ca. b. 5 As. c. 4 Sn.

+ + +

Periodic Table and Periodic Trends – Chapter 6

1. Compare & contrast how Mendeleev's periodic table was organized to how Moseley organized it.

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Piera Centobelli, Roberto Cerchione

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Fossil Energy Update ,1980 Transparency in Assessment - Exploring the Influence of Explicit Assessment Criteria Anders Jönsson,Frans Prins,2019-04-03 In many schools and higher education institutions it has become common practice to share assessment criteria with students Sometimes it is required for accountability purposes at other times criteria are used as a means to communicate expectations to students However the idea that explicit assessment criteria should be shared with students has been contested On the one hand research has shown that explicit criteria may positively affect student performance reduce their anxiety as well as support students use of self regulated learning strategies On the other hand there are fears that explicit criteria may have a restraining influence on students learning as well as limiting their autonomy and creativity There are also indications of students becoming more performance oriented as opposed to learning oriented when being provided with explicit assessment criteria Taken together it is not fully understood under which circumstances it is productive for student learning to share explicit assessment criteria and under which circumstances it is not In particular empirical research on the proposed negative effects of sharing criteria with learners is limited and most fears voiced in the literature are based on individual experiences and anecdotal evidence In this book we therefore bring different perspectives on transparency in assessment together in order to further our understanding of how students are influenced by the use of explicit assessment criteria A deeper understanding of the influence of explicit assessment criteria on students understanding of criteria motivation and learning is equally imperative for future research and educational practice both of which need to go beyond individual opinions and convictions 23rd European Conference on Knowledge Management Vol 2 Piera Centobelli,Roberto Cerchione,2022-09-01 Vacuum Bubbling Yong Du Jun,2024-05-23 Vacuum Bubbling introduces the background and applications for generating bubbles under a vacuum condition accomplished through

depressurization without the need to heat water It presents the advantage of utilizing vapor bubble in deaeration applications because the diffusion for degassing happens between the water body and micro vapor bubbles without the need of membrane or packing Instead of relying on massive heating vacuum bubbling focuses on depressurization down to the level of saturated vapor pressure or below to secure vapor bubbles with virtually zero dissolved non condensable gases including oxygen The book considers prospective applications such as extracting high oxygen content air from water for underwater breathing pretreatment of aircraft fuel before being pumped into a fuel tank system and probable desalination applications through massive bubbling combined with low grade renewable energy The book is intended for researchers in thermal fluids heat and mass transfer process engineering and water treatment fields and industry professionals working in power generation plant and process engineering transportation and energy Chemistry and Industry ,1963 Energy Research Abstracts ,1980

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