

PART II- REVIEW FINAL EXAM- CHEM 111

Name Key
Last First

1. What is the net-ionic equation for the reaction that occurs when:

a. nitrous acid and sodium hydroxide solutions are mixed.



Answer: $\text{HNO}_2 + \text{OH}^- \rightarrow \text{NO}_2^- + \text{H}_2\text{O}$ net-ionic



b. potassium hydroxide and hydrofluoric acid solutions are mixed.



Answer: $\text{OH}^- + \text{HF} \rightarrow \text{F}^- + \text{H}_2\text{O}$ net-ionic



2. Which of the elements given below will have?

Ba Mg Cl Te I

a. largest atomic size. ☒ B-a

b. highest ionization potential

c. lowest electronegativity Ba

d. lowest electron affinity **Ba**



3.a. Name the three classes of compounds that are considered as electrolytes.

L. Schuler, S. Schuler

ii. Strong acidsiii. Strong bases

b. Label each of the following as strong electrolyte, weak electrolyte, or non-electrolyte.

(You must know the list of soluble salts, strong acids and strong bases to answer this question.)

1. $\text{NaC}_2\text{H}_3\text{O}_2$ strong

ii. $\text{HC}_2\text{H}_3\text{O}_2$ 4.74 K

iii. HCN weak

iv. HCHO_2 ug/L/Kv. NH_4BrO_3 5.10379vi. C_4H_{12} nonelectrolyte

4. Tell if a precipitate may form upon mixing each of the following solutions:

(You must know the list of solubility rules to answer this question)

a. ammonium chloride and lead (II) nitrate

b. barium nitrate and potassium sulfate.

e. nickel (II) sulfate and sodium hydroxide

5. a. Define: isoelectronic

Different species that have the same number and configuration of electrons

b. Which of the following isoelectronic species has the largest size?

Se^{2-}	Br^-	Kr	Sr^{2+}
32 protons 34	35	36	38

on solutions 36	36	36	36
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The higher the nuclear charge (z of protons), the smaller the radius. The shells (energy levels) contract due to the greater attractive force of the nucleus. The radius decreases with increasing atomic number (no. of protons). Se^{2-} will have the largest size.

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**William Crookes, James H.
Gardiner, Gerald Druce, H. W. Blood-
Ryan**

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Science and Education for National Defense United States. Congress. Senate. Committee on Labor and Public Welfare, 1958 10 Things You Must Know About The International Chemistry Olympiad (Icho): A Guide To The Icho Competition (Revised Edition) I-jy Chang, Fun Man Fung, 2023-02-17 This is a book dedicated to special groups in the community whom we reach out to promote chemistry interest and learning chemistry It will be immensely useful to students parents who are interested in Science Olympiads Chemistry Olympiad chemistry instructors at the secondary and collegiate level and other science instructors at the secondary and collegiate level This is a one of a kind book that details the behind the scenes preparation and trainings that students undergo in various countries It will enable the effective promotion of chemistry in your respective countries and around the globe Interdisciplinary Approaches to Distance Teaching Alan Blackstock, Nathan Straight, 2015-11-19 Synchronous technologies particularly interactive video conferencing IVC are becoming common modes of teaching and delivering college courses The increasing popularity of IVC in the U S and abroad calls for more pedagogically effective practices for instructors using this technology This volume focuses on innovative and proven approaches to IVC teaching in a variety of disciplines English history biology chemistry geology engineering social work and elementary and special education Contributors hail from a pioneering university at the forefront of distance education and understand the practice and potential of IVC teaching at the highest levels Chapters outline the challenges and benefits of IVC teaching from pedagogical technical and administrative perspectives *Official Gazette* Philippines, 2010 British Medical Journal , 1929 **The Chemical News** , 1909 **Chemical News and Journal of Industrial Science** , 1775 **October 2019 Monthly Current Affairs with MCQs for Competitive Exams** Disha Experts, 2019-09-25 **Chemical News and Journal of Physical Science** , 1909 **The Chemical News and Journal of Physical Science** , 1912 **The Chemical News and Journal of Industrial Science** , 1909 Subject Guide to Books in Print , 1975 **The Chemical News and Journal of Industrial Science** William Crookes, James H. Gardiner, Gerald Druce, H. W. Blood-Ryan, 1909 *The Schoolmasters' Yearbook & Educational Directory* , 1915 **Hearings** United States. Congress Senate, 1957 **The Collegian and Progress of India** , 1912 **The WIPO Academy Portfolio of Education, Training and Skills Development Programs 2025** , 2025-03-21 This Portfolio serves as a catalogue of all the training opportunities to be offered by the WIPO Academy in 2025 and outlines the content of each course It gives information to potential participants on eligibility criteria application formalities timelines selection procedures travel and other relevant necessary information **Curriculum Handbook with General Information Concerning ... for the United States Air Force Academy** United States Air Force Academy, 1996 **The WIPO Academy Portfolio of Education, Training and Skills Development Programs 2022** World Intellectual Property Organization, 2022-02-19 This Portfolio serves as a catalogue of all the training opportunities to be offered by the WIPO Academy in 2022 and outlines the content of each

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