

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?

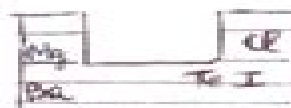
Bus	Mg	Cl	Te	I
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a. largest atomic size. ☒ a.

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-Schulz

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.)

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

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

iii. HCN weak

iv. HCHO_2 ug/L/Kv. NH_4BrO_3 5.10 g (97%)vi. 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+}
34	35	36	38

reductions	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.

General Chemistry 2 Final Exam National

LL Leslie

A decorative graphic consisting of a light blue horizontal bar with a rounded right end, and a red circular shape partially visible behind it.

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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 **Official Gazette** Philippines,2010 **Science Tests and Reviews** Buros Center,1975 Science Tests and Reviews consisting of science sections of the first seven MMYs and Tests in Print II includes 217 original test reviews written by 81 specialists 18 excerpted test reviews 270 references on the construction use and validity of specific tests a bibliography on in print science tests references for specific tests cumulative name indexes for specific tests with references a publishers directory title index name index and a scanning index The 97 tests covered fall into the following categories 23 general 14 biology 35 chemistry 3 geology 6 miscellaneous and 16 physics

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Broadening Participation in STEM Zayika Wilson-Kennedy,Goldie S. Byrd,Eugene Kennedy,Henry T.

Frierson,2019-02-28 This book reports on high impact educational practices and programs that have been demonstrated to be effective at broadening the participation of underrepresented groups in the STEM disciplines August 2019 Monthly Current Affairs with MCQs for Competitive Exams Disha Experts,2019-08-04

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