

CHEM 141L GENERAL CHEMISTRY-I**REVIEW EXAM #2**

(CH, 4-5-6; Masterton, Hurley, and North, 7th Ed.)
ECC

1. If aqueous solutions of nickel(II) chloride and potassium phosphate are mixed, which insoluble compound will form?
- $\text{Ni}_3(\text{PO}_4)_2$
 - NiCl_2
 - KCl
 - K_2Ni
 - K_3PO_4

ANS: A

2. Which of the following ionic compounds is not soluble in water?
- K_2CO_3
 - AgNO_3
 - CuBr_2
 - CaI_2
 - PbI_2

ANS: E

3. What is the net ionic equation for the reaction of aqueous sodium hydroxide and aqueous iron(II) chloride?
- $\text{Na}^+(\text{aq}) + \text{OH}^-(\text{aq}) \rightarrow \text{NaOH}(\text{s})$
 - $\text{Na}^+(\text{aq}) + \text{Cl}^-(\text{aq}) \rightarrow \text{NaCl}(\text{s})$
 - $\text{Fe}^{2+}(\text{aq}) + 2\text{OH}^-(\text{aq}) \rightarrow \text{Fe}(\text{OH})_2(\text{s})$
 - $\text{Fe}^{2+}(\text{aq}) + \text{OH}^-(\text{aq}) \rightarrow \text{FeOH}(\text{s})$
 - $\text{Fe}^{2+}(\text{aq}) + 2\text{Cl}^-(\text{aq}) \rightarrow \text{FeCl}_2(\text{s})$

ANS: C

4. Write a balanced net ionic equation for the reaction of aqueous solutions of lead(II) nitrate and potassium chloride.
- $\text{Pb}(\text{NO}_3)_2(\text{aq}) + 2\text{KCl}(\text{aq}) \rightarrow \text{PbCl}_2(\text{s}) + 2\text{KNO}_3(\text{aq})$
 - $\text{Pb}^{2+}(\text{aq}) + 2\text{K}^+(\text{aq}) \rightarrow \text{PbK}_2(\text{s})$
 - $\text{Pb}^{2+}(\text{aq}) + 2\text{Cl}^-(\text{aq}) \rightarrow \text{PbCl}_2(\text{s})$
 - $\text{NO}_3^-(\text{aq}) + \text{K}^+(\text{aq}) \rightarrow \text{KNO}_3(\text{s})$
 - no precipitation occurs.

ANS: C

5. Which list contains only strong acids?
- HCl , HNO_3 , HF , HClO_4
 - H_2SO_4 , H_3PO_4 , HClO_4 , NH_3
 - HCl , HNO_3 , H_2PO_4 , HClO_3
 - HCl , H_2SO_4 , HClO_4 , HI
 - HNO_3 , H_2SO_4 , NaOH , H_2PO_4

Sample Exam 1 Name Chem 21

**Jamie L. Schlottmann, Ron A.
Funkhouser**



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Chemical Analyses of Water Samples and Geophysical Logs from Cored Test Holes Drilled in the Central Oklahoma Aquifer, Oklahoma Jamie L. Schlottmann, Ron A. Funkhouser, 1991 *Exam Scorer Science (Chemistry) - Class XI (Chapterwise MCQs with 5 solved Model Papers for 2020 EXAM)* SBPD Editorial Board, 2019-10-03 An excellent book for Science students appearing in competitive professional and other examinations 1 Chemistry 2 5 Model Papers with OMR Sheet 3 Examination Paper JEE Advanced Chemistry - Unit wise Practice Test Papers Career Point Kota, 2020-07-20

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