

CHM151ILL QUIZ #2 SPRING 2002 NAME: _____

1. NaBrO_3 is the correct formula of

(A) sodium bromate. (B) sodium bromite. (C) sodium bromide. (D) sodium hypobromite.
2. Which name is most consistent with systematic (IUPAC) nomenclature for the compound, Ni_2O_3 ?

(A) nickel oxide(III) (B) nickel(II) oxide (C) nickel(III) oxide (D) nickel oxide(II)
3. A compound with the formula CaH_2 is called

(A) cadmium hydride. (B) calcium hydride. (C) hydrogen carbide. (D) calcium hydrate.
4. The correct IUPAC name of N_2O_3 is

(A) nitrogen oxide. (B) nitrogen(II) oxide. (C) nitrous oxide. (D) dinitrogen trioxide.
5. The formula of calcium nitrite is

(A) Ca_3N_2 (B) $\text{Ca}(\text{NO}_2)_2$ (C) $\text{Ca}(\text{NO})_2$ (D) $\text{Ca}(\text{NO}_3)_2$
6. The formula of sodium vanadate is Na_3VO_4 and that of calcium chloride is CaCl_2 . What is the formula of calcium vanadate?

(A) CaVO_4 (B) $\text{Ca}_3(\text{VO}_4)_2$ (C) $\text{Ca}(\text{VO}_4)_2$ (D) Ca_2VO_4 (E) $\text{Ca}(\text{VO}_4)_3$
7. Which is the correct formula/name combination?

(A) $\text{Al}_2(\text{SO}_4)_3$ / aluminum sulfate. (C) K_2PO_3 / potassium phosphate.
 (B) $\text{C}_2\text{H}_3\text{O}^-$ / acetate. (D) PCl_3 / phosphorus chlorite.
8. In which case is the substance with the given formula followed by its correct name?

(A) KNO_2 – potassium nitrate (D) FeCl_3 – iron(III) chloride
 (B) FeS – iron(II) sulfite (E) Mg_3N_2 – magnesium nitrite
 (C) HClO – hydrochloric oxide
9. If aluminum tungstate is $\text{Al}_2(\text{WO}_4)_3$, then

(A) calcium tungstate is CaWO_4 . (D) tungstic acid is H_3WO_4 .
 (B) cesium tungstate is CsWO_4 . (E) the oxidation number of W in this compound is +7.
 (C) tungsten hydride would be WH_7 .
10. The correct formula for iron(III) sulfate is

(A) FeSO_4 (B) $\text{Fe}_2(\text{SO}_4)_3$ (C) $\text{Fe}(\text{SO}_4)_2$ (D) $\text{Fe}_3(\text{SO}_4)_2$ (E) Fe_2SO_4
11. What is the formula for aluminum sulfate?

(A) AlSO_4 (B) Al_2SO_4 (C) Al_3SO_4 (D) $\text{Al}_3(\text{SO}_4)_2$ (E) $\text{Al}_2(\text{SO}_4)_3$

12. What is the formula for chromium(III) oxide?
(A) CrO (B) Cr₂O (C) Cr₃O (D) Cr₂O₃
13. What is the formula for strontium sulfide?
(A) SrS (B) Sr₂S (C) SrS₂ (D) SrS₃
14. What is the formula for copper(II) hydroxide?
(A) CuOH (B) Cu(OH)₂ (C) Cu₂OH (D) CuOH₂
15. Which is the formula for ammonium nitrate?
(A) NH₃N (B) NH₄N (C) NH₄NO₂ (D) NH₄NO₃
16. What is the formula for sodium carbonate?
(A) NaHCO₃ (B) So₂CO₃ (C) NaCO₃ (D) Na₂CO₃
17. What is the formula for chromium(III) sulfate?
(A) Cr₂(SO₄)₃ (B) Cr₂(SO₃)₃ (C) Cr₃(SO₄)₂ (D) Cr₃SO₄
18. What is the name of the compound Fe₂(SO₄)₃?
(A) iron(II) sulfate (B) iron(II) trisulfate (C) iron(III) sulfate (D) iron(II) sulfate(III)
19. What is the correct name for Fe(NO₃)₂?
(A) iron(II) nitrate (B) iron(III) nitrate (C) iron(II) nitrite (D) iron(III) nitrite
20. What is the correct name for HBrO₃(aq)?
(A) hydrogen bromite (C) hydrobromic acid (B) bromic acid (D) bromous acid
21. The formula for hypoiodous acid is?
(A) HI(aq) (B) HIO₂(aq) (C) HIO(aq) (D) HIO₄(aq)
22. What is the correct name for HNO₃(aq)?
(A) hydronitric acid (B) hyponitrous acid (C) nitric acid (D) nitrous acid (E) none of these
23. The formula for oxalic acid is?
(A) H₂C₂O₄(aq) (B) H₃C₂O₄(aq) (C) H₂CO₃(aq) (D) HCH₃CO₂(aq)
24. The formula for carbonic acid is?
(A) HCO₃(aq) (B) HCH₃CO₂(aq) (C) H₂CO₃(aq) (D) H₃C₂O₄(aq)
25. The formula for hydrofluoric acid is?
(A) HFO₃(aq) (B) HF (aq) (C) H₂F(aq) (D) HF₂(aq)