

Practice questions with solutions
CHAPTERS 4, 5, & 6

Name _____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 1) Which of the following of Dalton's proposals is still valid? 1) _____
A) All atoms of an element are identical.
B) Atoms are indivisible.
C) Atoms are indestructible.
D) all of the above
E) none of the above
- 2) Using atomic notation, indicate the isotope having 11 p⁺, 12 n⁰, and 11 e⁻. 2) _____
A) $^{12}_{11}\text{Na}$ B) $^{23}_{11}\text{Na}$ C) $^{12}_{11}\text{Mg}$ D) $^{23}_{12}\text{Mg}$ E) $^{23}_{12}\text{Na}$
- 3) How many neutrons are in the nucleus of an atom of silver-107? 3) _____
A) 47
B) 60
C) 154
D) 107
E) none of the above
- 4) Given that the only naturally occurring isotope of sodium is ^{23}Na , what is its isotopic mass? (Hint: Refer to the Periodic Table.) 4) _____
A) 12.00 amu B) 34.99 amu C) 11.99 amu D) 22.99 amu E) 11.00 amu
- 5) Element X has two natural isotopes: X-6 (6.015 amu) and X-7 (7.016 amu). Calculate the atomic mass of element X given the abundance of X-7 is 92.5%. 5) _____
A) 6.94 amu B) 12.5 amu C) 6.50 amu D) 6.52 amu E) 6.09 amu
- 6) Boron occurs naturally as ^{10}B and ^{11}B . Which isotope is more abundant? (Hint: Refer to the Periodic Table.) 6) _____
A) boron-10
B) boron-5
C) boron-11
D) boron-6
E) none of the above
- 7) Which of the following colors of light has the highest frequency? 7) _____
A) yellow
B) red
C) violet
D) green
E) All colors have the same frequency.

- 8) Which of the following types of radiation has the highest energy? 8) _____
- A) ultraviolet
 - B) X rays
 - C) visible
 - D) infrared
 - E) All radiation has the same energy.
- 9) Which of the following wavelengths of light is in the visible region of the radiant energy spectrum? 9) _____
- A) 550 nm
 - B) 250 nm
 - C) 850 nm
 - D) all of the above
 - E) none of the above
- 10) How many photons of light are emitted when the electron in a hydrogen atom drops from energy level 4 to 2? 10) _____
- A) 1
 - B) 2
 - C) 3
 - D) 4
 - E) none of the above
- 11) How many energy sublevels exist within the 3rd principal energy level? 11) _____
- A) 1
 - B) 2
 - C) 3
 - D) 4
 - E) none of the above
- 12) What is the maximum number of electrons that can occupy an *s* energy sublevel? 12) _____
- A) 14
 - B) 10
 - C) 2
 - D) 6
 - E) none of the above
- 13) What is the maximum number of electrons that can occupy a *d* energy sublevel? 13) _____
- A) 14
 - B) 6
 - C) 10
 - D) 2
 - E) none of the above
- 14) Which electron sublevel follows the *3d* sublevel according to increasing energy? 14) _____
- A) *4d*
 - B) *3s*
 - C) *3p*
 - D) *4p*
 - E) *4s*

15) What is the electron configuration for an atom of fluorine? 15) _____

- A) $1s^2 2s^2 2p^5$
- B) $1s^2 2s^2 2p^3$
- C) $1s^2 2s^2 2p^6 3s^1$
- D) $1s^2 2s^2 2p^6 3s^2 3p^5$
- E) none of the above

16) What is the electron configuration for an atom of nickel? 16) _____

- A) $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 4p^8$
- B) $1s^2 2s^2 2p^6 3s^2 3p^6 3d^8$
- C) $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^8$
- D) $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 4d^8$
- E) none of the above

17) Which element has the following electron configuration: $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2$ 17) _____

$3d^{10} 4p^6 5s^2 4d^{10} 5p^2$?

- A) Sr
- B) Hf
- C) Zr
- D) Sn
- E) none of the above

18) Which of the following orbitals has a spherical shape? 18) _____

- A) $4p_x$
- B) $4d_{xy}$
- C) $4s$
- D) all of the above
- E) none of the above

19) What is the maximum number of electrons in a $4s$ orbital? 19) _____

- A) 1
- B) 6
- C) 2
- D) 4
- E) none of the above

20) How many orbitals are in the $4s$ subshell? 20) _____

- A) 4
- B) 3
- C) 5
- D) 1
- E) none of the above

21) How many orbitals are in the $4p$ subshell? 21) _____

- A) 4
- B) 1
- C) 5
- D) 3
- E) none of the above

- 22) Which of the following statements is true? 22) _____
- A) Dalton proposed a "particle model" of matter.
 - B) Bohr proposed a "planetary model" of the atom.
 - C) Thomson proposed a "plum pudding model" of the atom.
 - D) Rutherford proposed a "nuclear model" of the atom.
 - E) all of the above.
- 23) An atom can be described by the analogy "*like a marble in the Dallas Cowboys Stadium.*" If the *stadium* represents an atom, what does the *marble* represent? 23) _____
- A) neutron
 - B) proton
 - C) electron
 - D) marble
 - E) nucleus
- 24) Which of the following is an alkaline earth metal? 24) _____
- A) Ca
 - B) Ba
 - C) Mg
 - D) all of the above
 - E) none of the above
- 25) Which of the following is a noble gas? 25) _____
- A) Xe
 - B) He
 - C) Ar
 - D) all of the above
 - E) none of the above
- 26) Which of the following is a general trend in the periodic table for the metallic character of the elements? 26) _____
- A) decreases from left to right, increases from bottom to top
 - B) increases from left to right, decreases from bottom to top
 - C) increases from left to right, increases from bottom to top
 - D) decreases from left to right, decreases from bottom to top
 - E) none of the above
- 27) Which of the following is a general trend in the periodic table for the atomic radius of the elements? 27) _____
- A) increases from left to right, decreases from bottom to top
 - B) decreases from left to right, decreases from bottom to top
 - C) increases from left to right, increases from bottom to top
 - D) decreases from left to right, increases from bottom to top
 - E) none of the above
- 28) Which of the following is a general trend from left to right in the periodic table of elements? 28) _____
- A) atomic radius decreases; metallic character decreases
 - B) atomic radius decreases; metallic character increases
 - C) atomic radius increases; metallic character decreases
 - D) atomic radius increases; metallic character increases
 - E) none of the above
- 29) Which of the following elements has the most metallic character? 29) _____
- A) Na
 - B) Ca
 - C) K
 - D) Al
 - E) Fe

- 30) Which of the following elements has the least metallic character? 30) _____
A) S B) O C) P D) C E) N
- 31) Which of the following elements has the largest atomic radius? 31) _____
A) Na B) Mg C) Li D) B E) Be
- 32) Which of the following elements has the smallest atomic radius? 32) _____
A) Cl B) F C) Br D) O E) S
- 33) Which of the following has chemical properties most similar to sodium? 33) _____
A) Fe B) K C) He D) Mg E) B
- 34) Which of the following does *not* have chemical properties similar to Mg? 34) _____
A) beryllium
B) barium
C) strontium
D) manganese
E) calcium
- 35) Given the chemical formulas for Al_2O_3 , SiO_2 , and P_2O_5 , predict the formula for arsenic oxide, As_xO_y . 35) _____
A) AsO B) As_2O_3 C) AsO_2 D) As_3O_2 E) As_2O_5
- 36) Given the chemical formulas CH_4 , NH_3 , and H_2O , predict the formula for silane, Si_xH_y . 36) _____
A) SiH_3 B) H_2Si C) SiH D) SiH_4 E) SiH_2
- 37) Which energy sublevel is being filled by the elements K to Ca? 37) _____
A) $4s$ B) $3d$ C) $4p$ D) $4f$ E) $4d$
- 38) Which energy sublevel is being filled by the elements Rb to Sr? 38) _____
A) $5s$ B) $5p$ C) $4d$ D) $5d$ E) $5f$
- 39) Which energy sublevel is being filled by the elements Y to Cd? 39) _____
A) $5f$ B) $5d$ C) $5s$ D) $4d$ E) $5p$
- 40) What is the core notation for the electron configuration of a potassium atom? 40) _____
A) $[\text{Ar}] \ 4p^1$ B) $[\text{Ar}]$ C) $[\text{Kr}]$ D) $[\text{Ar}] \ 4s^1$ E) $[\text{Ar}] \ 4d^1$
- 41) What is the core notation for the electron configuration of an iodine atom? 41) _____
A) $[\text{Kr}] \ 5s^2 \ 4d^{10} \ 5p^5$
B) $[\text{Kr}]$
C) $[\text{Xe}]$
D) $[\text{Kr}] \ 5s^2 \ 4p^5$
E) $[\text{Kr}] \ 5s^2 \ 4d^{10} \ 5d^6$
- 42) Predict the number of valence electrons for a Group IIA/2 element. 42) _____
A) 6 B) 3 C) 1 D) 8 E) 2

- 43) Predict the number of valence electrons for a Group VIA/16 element. 43) _____
- A) 2 B) 8 C) 4 D) 16 E) 6
- 44) Predict the number of valence electrons for a Group VIIA/17 element. 44) _____
- A) 1 B) 17 C) 2 D) 3 E) 7
- 45) Which of the following is the electron dot formula for an atom of potassium? 45) _____
- (a) K• (b) $\ddot{\text{K}}\cdot$ (c) $\cdot\dot{\text{K}}:$ (d) $:\ddot{\text{K}}:$
A) (a) B) (b) C) (c) D) (d) E) (e)
- 46) Which of the following is the electron dot formula for an atom of strontium? 46) _____
- (a) Sr• (b) $\dot{\text{Sr}}$ • (c) $\cdot\dot{\text{Sr}}:$ (d) $\cdot\dot{\text{Sr}}:$
A) (a) B) (b) C) (c) D) (d) E) (e)
- 47) Which of the following is the electron dot formula for an atom of nitrogen? 47) _____
- (a) N• (b) $\cdot\dot{\text{N}}\cdot$ (c) $\cdot\dot{\text{N}}:$ (d) $:\dot{\text{N}}:$
A) (a) B) (b) C) (c) D) (d) E) (e)
- 48) Which of the following is the electron dot formula for an atom of oxygen? 48) _____
- (a) O• (b) $\dot{\text{O}}\cdot$ (c) $\cdot\dot{\text{O}}\cdot$ (d) $\cdot\dot{\text{O}}:$ (e) $:\dot{\text{O}}:$
A) (a) B) (b) C) (c) D) (d) E) (e)
- 49) Which of the following is the electron dot formula for an atom of neon? 49) _____
- (a) Ne• (b) $\cdot\dot{\text{Ne}}\cdot$ (c) $\cdot\dot{\text{Ne}}\cdot$ (d) $:\dot{\text{Ne}}:$ (e) $:\ddot{\text{Ne}}:$
A) (a) B) (b) C) (c) D) (d) E) (e)
- 50) Which of the following is a general trend for the ionization energy of elements in the periodic table? 50) _____
- A) increases from left to right; decreases from bottom to top
 B) decreases from left to right; decreases from bottom to top
 C) increases from left to right; increases from bottom to top
 D) decreases from left to right; increases from bottom to top
 E) none of the above
- 51) Which of the following elements has the highest ionization energy? 51) _____
- A) K B) Cl C) Kr D) Ar E) Br
- 52) Which of the following groups has a predictable ionic charge of one negative? 52) _____
- A) Group VIIA/17
 B) Group IA/1
 C) Group IB/11
 D) Group VIIIA/18
 E) Group IIIA/13

- 53) What is the predicted ionic charge for a K ion? 53) _____
- A) 1+
 - B) 2+
 - C) 2-
 - D) 1-
 - E) none of the above
- 54) What is the predicted ionic charge for a Sn ion? 54) _____
- A) 4+
 - B) 3-
 - C) 4-
 - D) 3+
 - E) none of the above
- 55) What is the predicted ionic charge for a Bi ion? 55) _____
- A) 4-
 - B) 2+
 - C) 4+
 - D) 2-
 - E) none of the above
- 56) Which of the following ions is isoelectronic with the noble gas argon? 56) _____
- A) Ca^{2+}
 - B) Sc^+
 - C) V^{3+}
 - D) Na^+
 - E) none of the above
- 57) Which of the following ions is isoelectronic with the noble gas krypton? 57) _____
- A) I^-
 - B) K^+
 - C) As^{3+}
 - D) Se^{2-}
 - E) none of the above
- 58) Which of the following ions is *not* isoelectronic with the noble gas krypton? 58) _____
- A) Se^{2-}
 - B) Zr^{4+}
 - C) Br^-
 - D) Ga^{3+}
 - E) Sr^{2+}
- 59) Which of the following ions is *not* isoelectronic with the noble gas xenon? 59) _____
- A) Te^{2-}
 - B) Sb^{3+}
 - C) I^-
 - D) Cs^+
 - E) Ba^{2+}
- 60) What is the electron configuration using core notation for Ca^{2+} ? 60) _____
- A) $[\text{Ar}]$
 - B) $[\text{Ar}] 4s^2 4d^8$
 - C) $[\text{Ar}] 4s^2$
 - D) $[\text{Ar}] 4d^{10}$
 - E) none of the above

61) What is the electron configuration using core notation for Co³⁺?

61) _____

- A) [Ar] 3d⁶
- B) [Ar] 4s² 3d⁷
- C) [Ar] 4s² 3d⁴
- D) [Ar]
- E) none of the above

62) What is the electron configuration for a fluoride ion, F⁻?

62) _____

- A) 1s² 2s² 2p⁵
- B) 1s² 2s² 2p⁶
- C) 1s² 2s² 2p⁴
- D) 1s² 2s² 2p⁶ 3s¹
- E) none of the above

63) What is the electron configuration for an oxide ion, O²⁻?

63) _____

- A) 1s² 2s² 2p⁶ 3s¹
- B) 1s² 2s² 2p⁴
- C) 1s² 2s² 2p⁵
- D) 1s² 2s² 2p⁶
- E) none of the above

64) What is the electron configuration for a nitride ion, N³⁻?

64) _____

- A) 1s² 2s² 2p⁴
- B) 1s² 2s² 2p⁵
- C) 1s² 2s² 2p³
- D) 1s² 2s² 2p⁶
- E) none of the above

65) What is the electron configuration using core notation for I⁻?

65) _____

- A) [Kr] 5s² 4d¹⁰ 5p⁴
- B) [Kr] 5s² 5p⁶
- C) [Xe]
- D) [Kr] 5s² 4d¹⁰ 5p⁵
- E) none of the above

66) Which of the following is a solid metal at normal conditions?

66) _____

- A) Hg
- B) Ge
- C) Zn
- D) all of the above
- E) none of the above

- 67) Which of the following is a liquid metal at normal conditions? 67) _____
- A) Zn
 - B) Ge
 - C) Hg
 - D) all of the above
 - E) none of the above
- 68) The compound Ag₂S is classified as which of the following? 68) _____
- A) ternary ionic
 - B) binary ionic
 - C) ternary oxyacid
 - D) binary acid
 - E) binary molecular
- 69) The compound CaCO₃ is classified as which of the following? 69) _____
- A) binary molecular
 - B) binary ionic
 - C) ternary oxyacid
 - D) binary acid
 - E) ternary ionic
- 70) The compound Co(NO₃)₃ is classified as which of the following? 70) _____
- A) ternary oxyacid
 - B) binary ionic
 - C) binary acid
 - D) binary molecular
 - E) ternary ionic
- 71) The compound NH₃ is classified as which of the following? 71) _____
- A) binary molecular
 - B) binary ionic
 - C) ternary oxyacid
 - D) ternary ionic
 - E) binary acid
- 72) Aqueous HCl is classified as which of the following? 72) _____
- A) binary molecular
 - B) ternary oxyacid
 - C) binary ionic
 - D) binary acid
 - E) ternary ionic
- 73) Aqueous HClO₂ is classified as which of the following? 73) _____
- A) ternary ionic
 - B) ternary oxyacid
 - C) binary ionic
 - D) binary molecular
 - E) binary acid

- 74) The Cu^{2+} ion is classified as which of the following? 74) _____
- A) polyatomic cation
 - B) monoatomic anion
 - C) monoatomic cation
 - D) polyatomic anion
 - E) none of the above
- 75) The Cl^- ion is classified as which of the following? 75) _____
- A) monoatomic cation
 - B) polyatomic cation
 - C) polyatomic anion
 - D) monoatomic anion
 - E) none of the above
- 76) The S^{2-} ion is classified as which of the following? 76) _____
- A) monoatomic cation
 - B) monoatomic anion
 - C) polyatomic anion
 - D) polyatomic cation
 - E) none of the above
- 77) The selenate ion, SeO_3^{2-} , is classified as which of the following? 77) _____
- A) polyatomic anion
 - B) polyatomic cation
 - C) monoatomic anion
 - D) monoatomic cation
 - E) none of the above
- 78) What is the systematic name for S^{2-} ? 78) _____
- A) sulfate ion
 - B) sulfide ion
 - C) sulfite ion
 - D) sulfur ion
 - E) none of the above
- 79) What is the systematic name for N^{3-} ? 79) _____
- A) nitride ion
 - B) nitrogen ion
 - C) nitrate ion
 - D) nitrite ion
 - E) none of the above
- 80) What is the chemical formula for the copper(I) ion? 80) _____
- A) Co^{2+}
 - B) Cu^+
 - C) Cu^{2+}
 - D) Co^+
 - E) none of the above

81) What is the chemical formula for the iodide ion?

81) _____

- A) IO_2^-
- B) IO^-
- C) I^-
- D) IO_3^-
- E) none of the above

82) What is the systematic name for MnO_4^- ?

82) _____

- A) permanganate ion
- B) manganate ion
- C) manganese ion
- D) mangarite ion
- E) none of the above

83) What is the systematic name for PO_4^{3-} ?

83) _____

- A) phosphate ion
- B) phosphite ion
- C) phosphide ion
- D) tetraphosphate ion
- E) none of the above

84) What is the chemical formula for the hypochlorite ion?

84) _____

- A) ClO_4^-
- B) ClO^-
- C) ClO_2^-
- D) ClO_3^-
- E) none of the above

85) What is the chemical formula for the sulfite ion?

85) _____

- A) SO_3^{2-}
- B) SO_4^-
- C) SO_4^{2-}
- D) SO_3^-
- E) none of the above

86) What is the chemical formula for the ternary compound composed of Na^+ and CO_3^{2-} ions?

86) _____

- A) Na_2CO_3
- B) NaCO_3
- C) $\text{Na}_2(\text{CO}_3)_2$
- D) $\text{Na}(\text{CO}_3)_2$
- E) none of the above

- 87) What is the chemical formula for the ternary compound composed of Co^{3+} and SO_4^{2-} ions? 87) _____
- A) Co_2SO_4
 - B) $\text{Co}_2(\text{SO}_4)_3$
 - C) $\text{Co}_3(\text{SO}_4)_2$
 - D) CoSO_4
 - E) none of the above
- 88) What is the chemical formula for the ternary compound composed of Ag^+ and NO_3^- ions? 88) _____
- A) Ag_3NO_3
 - B) $\text{Ag}_3(\text{NO}_3)_3$
 - C) $\text{Ag}(\text{NO}_3)_3$
 - D) AgNO_3
 - E) none of the above
- 89) What is the ionic charge for the copper ion in CuS ? 89) _____
- A) 2+
 - B) zero
 - C) 3+
 - D) 1+
 - E) none of the above
- 90) What is the ionic charge for the lead ion in PbO_2 ? 90) _____
- A) 4+
 - B) 2+
 - C) 1+
 - D) zero
 - E) none of the above
- 91) What is the chemical formula for aluminum sulfide? 91) _____
- A) Al_3S_2
 - B) AlS
 - C) Al_2S
 - D) Al_2S_3
 - E) none of the above
- 92) What is the chemical formula for mercury(I) nitride? 92) _____
- A) $(\text{Hg}_2)_2\text{N}_3$
 - B) Hg_3N_2
 - C) Hg_2N_3
 - D) $(\text{Hg}_2)_3\text{N}_2$
 - E) none of the above
- 93) What is the systematic name for CdI_2 ? 93) _____
- A) cadmium(I) iodide
 - B) cadmium(II) iodide
 - C) cadmium iodide
 - D) cadmium diiodide
 - E) none of the above

94) What is the Stock system name for NiS?

94) _____

- A) nickel(II) sulfate
- B) nickel sulfide
- C) nickel(II) sulfite
- D) nickel(II) sulfide
- E) none of the above

95) What is the Latin system name for FeO?

95) _____

- A) ferrous oxide
- B) iron(III) oxide
- C) iron(II) oxide
- D) ferric oxide
- E) none of the above

96) Predict the chemical formula for sodium sulfide, given the formula of lithium oxide, Li₂O.

96) _____

- A) Na₂S₃
- B) Na₂S
- C) NaS
- D) NaS₂
- E) none of the above

97) Predict the chemical formula for cesium fluoride, given the formula of sodium chloride, NaCl.

97) _____

- A) Cs₂F
- B) CsF₂
- C) Cs₂F₃
- D) CsF
- E) none of the above

98) What is the ionic charge for the chromium ion in Cr₂(SO₄)₃?

98) _____

- A) zero
- B) 1+
- C) 2+
- D) 3+
- E) none of the above

99) What is the chemical formula for barium phosphate?

99) _____

- A) Ba₂(PO₄)₃
- B) BaPO₄
- C) Ba₃(PO₄)₂
- D) BaPO₃
- E) none of the above

100) What is the chemical formula for tin(II) chlorate?

100) _____

- A) $\text{Sn}(\text{ClO}_3)_4$
- B) $\text{Sn}(\text{ClO}_3)_2$
- C) $\text{Sn}(\text{ClO}_2)_4$
- D) $\text{Sn}(\text{ClO}_2)_2$
- E) none of the above

101) What is the systematic name for Na_2CO_3 ?

101) _____

- A) sodium carbon trioxide
- B) disodium carbonate
- C) sodium carbonate
- D) sodium tricarbonate
- E) none of the above

102) What is the chemical formula for potassium cyanide?

102) _____

- A) $\text{K}(\text{CN})_2$
- B) K_3CN
- C) KCN
- D) K_2CN
- E) none of the above

103) What is the systematic name for NH_4Cl ?

103) _____

- A) tetraammonium chloride
- B) ammonium tetrachloride
- C) ammonium chloride
- D) nitrogen tetrahydrogen chloride
- E) none of the above

104) What is the chemical formula for laughing gas, dinitrogen oxide?

104) _____

- A) N_2O_2
- B) NO_2
- C) NO
- D) N_2O
- E) none of the above

105) What is the chemical formula for iodine heptafluoride?

105) _____

- A) I_2F_6
- B) IF_7
- C) IF_6
- D) IF
- E) none of the above

106) What is the chemical formula for dinitrogen trioxide?

106) _____

- A) N_2O_5
- B) N_2O
- C) N_2O_4
- D) N_2O_3
- E) none of the above

- 107) What is the chemical formula for tetraphosphorus trisulfide (the flammable compound on match tips that causes ignition)? 107) _____
- A) P₃S₄
 - B) P₄S₃
 - C) PS₃
 - D) P₄S
 - E) none of the above
- 108) What is the chemical formula for hydroselenic acid? 108) _____
- A) H₂Se(*aq*)
 - B) HSe(*aq*)
 - C) H₂SeO₃(*aq*)
 - D) HSeO₂(*aq*)
 - E) none of the above
- 109) What is the systematic name for aqueous HF? 109) _____
- A) hydrogen fluoride
 - B) fluorous acid
 - C) hydrofluoric acid
 - D) fluoric acid
 - E) none of the above
- 110) What is the chemical formula for chlorous acid? 110) _____
- A) HClO₂(*aq*)
 - B) HClO₃(*aq*)
 - C) HClO(*aq*)
 - D) HClO₄(*aq*)
 - E) none of the above
- 111) What is the chemical formula for chloric acid? 111) _____
- A) HClO₂(*aq*)
 - B) HClO(*aq*)
 - C) HClO₃(*aq*)
 - D) HClO₄(*aq*)
 - E) none of the above
- 112) What is the systematic name for aqueous H₃PO₄? 112) _____
- A) phosphorous acid
 - B) hydrophosphoric acid
 - C) hydrophosphorous acid
 - D) phosphoric acid
 - E) none of the above
- 113) What is the chemical formula for hydrocyanic acid? 113) _____
- A) HCNO(*aq*)
 - B) HN₃(*aq*)
 - C) H₃N(*aq*)
 - D) HCN(*aq*)
 - E) none of the above

114) Which of the following compounds is named using an -ate suffix?

114) _____

- A) SO₂
- B) ZnSO₃
- C) NiCl₂
- D) KMnO₄
- E) none of the above

115) Which of the following acids is named: hydro + nonmetal stem + ic acid?

115) _____

- A) HBr(*aq*)
- B) HF(*aq*)
- C) H₂S(*aq*)
- D) all of the above
- E) none of the above

Answer Key

Testname: CHEM1305 PRCTICE QUESTION CH 4, 5, 6

- 1) E
- 2) B
- 3) B
- 4) D
- 5) A
- 6) C
- 7) C
- 8) B
- 9) A
- 10) A
- 11) C
- 12) C
- 13) C
- 14) D
- 15) A
- 16) C
- 17) D
- 18) C
- 19) C
- 20) D
- 21) D
- 22) E
- 23) E
- 24) D
- 25) D
- 26) D
- 27) B
- 28) A
- 29) C
- 30) B
- 31) A
- 32) B
- 33) B
- 34) D
- 35) E
- 36) D
- 37) A
- 38) A
- 39) D
- 40) D
- 41) A
- 42) E
- 43) A
- 44) E
- 45) A
- 46) B
- 47) C
- 48) D
- 49) E
- 50) C

Answer Key

Testname: CHEM1305 PRCTICE QUESTION CH 4, 5, 6

- 51) D
- 52) A
- 53) A
- 54) A
- 55) E
- 56) A
- 57) D
- 58) D
- 59) B
- 60) A
- 61) A
- 62) B
- 63) D
- 64) D
- 65) C
- 66) C
- 67) C
- 68) B
- 69) E
- 70) E
- 71) A
- 72) D
- 73) B
- 74) C
- 75) D
- 76) B
- 77) A
- 78) B
- 79) A
- 80) B
- 81) C
- 82) A
- 83) A
- 84) B
- 85) A
- 86) A
- 87) B
- 88) D
- 89) A
- 90) A
- 91) D
- 92) D
- 93) C
- 94) D
- 95) A
- 96) B
- 97) D
- 98) D
- 99) C
- 100) B

Answer Key

Testname: CHEM1305 PRCTICE QUESTION CH 4, 5, 6

- 101) C
- 102) C
- 103) C
- 104) D
- 105) B
- 106) D
- 107) B
- 108) A
- 109) C
- 110) A
- 111) C
- 112) D
- 113) D
- 114) D
- 115) D