<ol> <li>How many atoms</li> <li>A) 3.49 × 10<sup>24</sup></li> <li>B) 1.03 × 10<sup>23</sup></li> <li>C) 6.02 × 10<sup>23</sup></li> <li>D) 4.00</li> <li>E) none of the atom</li> </ol>		He?		
<ul> <li>2) How many atoms (A) 18.98</li> <li>B) 9.03 × 10<sup>23</sup></li> <li>C) 6.022 × 10<sup>23</sup></li> <li>D) 1.81 × 10<sup>24</sup></li> <li>E) none of the atom</li> </ul>		fluorine gas?		
3) What is the mass o A) 127 B) 63.3 C) 39.7 D) 19.9 E) none of the a		orine gas?		
4) You have 10.0 g ea A) Cu	ch of Na, C, Pb, Cu B) C	and Ne. Which contair C) Pb	ns the largest number of mo D) Ne	oles? E) Na
5) How many atoms A) 438 B) 0.555 C) 2.64 × 10 <sup>26</sup> D) 3.34 × 10 <sup>23</sup> E) none of the a		silicon?		
6) What is the mass o A) 0.0630 B) 0.142 C) 4.72 × 10 <sup>−5</sup> D) 1.07 × 10 <sup>−4</sup>	f 1.56 × 10 <sup>21</sup> atoms	of magnesium in gram	s?	

E) none of the above

7) Calculate the molar mass of ammonium carbonate.

A) 78.05 g/mol

B) 96.09 g/mol

C) 112.09 g/mol

D) 88.05 g/mol

E) none of the above

8) How many molecules of nitrogen monoxide are in a 22.5 gram sample?

- A) 7.33 × 10<sup>23</sup>
- B) 5.86 × 10<sup>23</sup>
- C) 4.06 × 10<sup>23</sup>
- D) 4.51 × 10<sup>23</sup>
- E) none of the above

9) One mole of potassium sulfate contains:

- A) 1 mole of potassium.
- B) 3 moles of potassium.
- C) 4 moles of oxygen.
- D) 2 moles of sulfur.
- E) none of the above
- 10) An iron ore sample is found to be 35.00% Fe by mass. How many grams of ore are needed to obtain 454.0 grams of Fe?
  - A) 1297
  - B) 350.0
  - C) 158.9
  - D) 295.1
  - E) none of the above

11) What is the mass percent of chlorine in hydrochloric acid?

- A) 70.1
- B) 35.5
- C) 97.2
- D) 2.8
- E) none of the above

12) Which of the following is already in its empirical formula?

A)  $C_6H_6$ B)  $C_5H_{12}O_2$ C)  $C_{22}H_{34}O_{10}$ D)  $C_6H_{12}O_3$ E) none of the above

13) Determine the correct empirical formula of a compound containing 26.68% carbon, 2.24% hydrogen, and 71.08%

- oxygen.
  - A) CHO
  - B) CHO<sub>2</sub>
  - C) C<sub>2</sub>H<sub>2</sub>O<sub>4</sub>
  - D)  $C_{0.5}H_{0.5}O_1$
  - E) none of the above

14) What is the molecular formula of a compound given the molar mass of the compound is 186.5 gram and the empirical formula is C<sub>2</sub>H<sub>7</sub>?

A) C<sub>2</sub>H<sub>14</sub>

B) C<sub>4</sub>H<sub>14</sub>

C) C<sub>2</sub>H<sub>7</sub>

D) C<sub>3</sub>H<sub>21</sub>

E) none of the above

Answer Key Testname: PRACTICEQ\_CH06

1) A 2) D 3) C 4) B 5) D 6) A 7) B 8) D 9) C 10) A 11) C 12) B 13) B 14) E