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

1) Write the value 0.0000009620 in scientific notation. 1) _____

A) 9.62×10^{-13}
B) 9.620×10^{-6}
C) 9.620×10^{-7}
D) $9.62 \times 10^{+7}$
E) 9.62×10^{-12}

2) Select the answer with the correct number of decimal places for the following sum: 2) _____
13.914 cm + 243.1 cm + 12.00460 cm =

A) 269.0186 cm B) 269.019 cm C) 269.02 cm D) 269.0 cm

3) Select the answer that expresses the result of this calculation with the correct number of significant figures. 3) _____

$$\frac{13.602 \times 1.90 \times 3.06}{4.2 \times 1.4097}$$

A) 13.3568 B) 13 C) 13.4 D) 13.357 E) 13.36

4) The distance between carbon atoms in ethylene is 134 picometers. Which of the following expresses that distance in meters? 4) _____

A) 1.34×10^{-12} m
B) 1.34×10^{-7} m
C) 1.34×10^{-13} m
D) 1.34×10^{-10} m

5) The mass of a sample is 550 milligrams. Which of the following expresses that mass in kilograms? 5) _____

A) 5.5×10^{-6} kg B) 5.5×10^{-1} kg C) 5.5×10^{5} kg D) 5.5×10^{-4} kg

6) The density of mercury, the only metal to exist as a liquid at room temperature, is 13.6 g/cm^3. What is that density in pounds per cubic inch? (1 in = 2.54 cm; 1 lb = 454 g) 6) _____

A) 849 lb/in^3
B) 1.83×10^{-3} lb/in^3
C) 491 lb/in^3
D) 0.491 lb/in^3

Answer Key
Testname: MINI-PRAC CH4

1) C
2) D
3) B
4) D
5) D
6) D