Chemistry 141 Name \_\_ \_\_\_\_\_

Martin Larter

Quiz 1 (25 points) August 27, 2014

All work must be shown to receive credit.

1. (4 points)Identify each of the following as being most like an observation, a law, or a theory.
2. All coastal areas experience two high tides and two low tides each day. \_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. The tides in Earth's oceans are caused mainly by the gravitational attraction of the moon. \_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Yesterday, high tide in San Francisco Bay occurred at 2:43 a.m. and 3:07 p.m. \_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. Tides are higher at the full moon and new moon than at other times of the month. Law\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. (2 points)Perform the following calculation to the correct number of significant figures.

$$178.80-\frac{92.45687}{10.26}+0.9137 ×2.002=$$

1. (5 points)If the walls in a room are 88.7 m2 in area and a gallon of paint covers 15 square yards, how many gallons of paint are needed to paint the room?
2. (4 points)The coldest temperature ever recorded on Earth was -128.6°F (recorded at Vostok Station, Antarctica, on July 21, 1983). Express this temperature in degrees Celsius and kelvin.
3. (10 points) Fill in the following table

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| --- | --- |
| Write chemical formula | Write chemical name |
| Lead (II) nitride | H2Se (aq) |
| Ammonium dichromate | Mn(ClO)2 (s) |
| Sodium bisulfite | Fe(CN)3 (s) |
| Stannic carbonate | Latin |
| Chloric acid | FeSO4·7H2O (s) |