Chemistry 115 Name

Dr. Cary Willard

Quiz 2a (20 points) February 9, 2010

Must show all work to receive credit. Use proper significant figures.

1. (5 points) After you have worked out at the gym on a stationary bike for 45.0 minutes, the distance gauge indicates that you have traveled 15.2 miles. What was your rate in km/hr? (hint: 1 mile = 5280 feet)
2. (5 points) On a rainy day in San Diego the temperature outside is 17oC. Calculate this temperature in degrees Fahrenheit.
3. (3 points) Give an example of each of the following:

|  |  |
| --- | --- |
| Nonmetallic element |  |
| Halogen |  |
| Diatomic element |  |

1. (4 points) Write the ion that would be formed from each of the following elements and give its correct name.

|  |  |  |
| --- | --- | --- |
| Element | Ion formed | Name |
| Ca |  |  |
| N |  |  |

1. (3 points) Explain why the filling of a McDonald’s hot apple pie will burn your mouth when the pie is cool enough to hold in your hands. Use chemical reasoning.

Chemistry 115 Name

Dr. Cary Willard

Quiz 2b (20 points) February 9, 2010

Must show all work to receive credit. Use proper significant figures.

1. (5 points) After you have worked out at the gym on a stationary bike for 45.0 minutes, the distance gauge indicates that you have traveled 17.2 miles. What was your rate in km/hr? (hint: 1 mile = 5280 feet)
2. (5 points) On a rainy day in San Diego the temperature outside is 15oC. Calculate this temperature in degrees Fahrenheit.
3. (3 points) Give an example of each of the following:

|  |  |
| --- | --- |
| Metallic element |  |
| Alkaline earth element |  |
| Diatomic element |  |

1. (4 points) Write the ion that would be formed from each of the following elements and give its correct name.

|  |  |  |
| --- | --- | --- |
| Element | Ion formed | Name |
| K |  |  |
| S |  |  |

1. (3 points) Explain why the filling of a McDonald’s hot apple pie will burn your mouth when the pie is cool enough to hold in your hands. Use chemical reasoning.