

# Preclass Assignment

## CHEM 1100-General Chemistry II

Name:

#1

Section: 31, TR

Due Date: Thursday 1/10/2019

1. CHEM 1090 Review. Write the name or the formula for each of the following:

a. NaCl

e. hydrochloric acid

b. MgCl<sub>2</sub>

f. sodium hydroxide

c. SO<sub>2</sub>

g. chloric acid

d. Na<sub>2</sub>CO<sub>3</sub>

h. magnesium nitrate

2. Ethylene glycol, C<sub>2</sub>H<sub>6</sub>O<sub>2</sub>, is a nonvolatile nonelectrolyte and is commonly added to water and used as both a coolant and an antifreeze in radiators. What is the molality of an aqueous solution that is 52.0 % (by mass) ethylene glycol?

3. At 20 °C, pure water has a vapor pressure of 17.25 Torr. What is the vapor pressure of the solution formed by adding 28.1 g of sucrose (C<sub>12</sub>H<sub>22</sub>O<sub>11</sub>), a nonelectrolyte, to 100.0 g of water?