

Preclass Assignment

CHEM 1100-General Chemistry II

Name:

#1

Section: 31, TR

Due Date: Tuesday 4/4/2017

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

a. NaCl

e. hydrochloric acid

b. MgCl₂

f. sodium hydroxide

c. SO₂

g. chloric acid

d. Na₂CO₃

h. magnesium nitrate

2. Ethylene glycol, C₂H₆O₂, 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 (C₁₂H₂₂O₁₁), a nonelectrolyte, to 100.0 g of water?