

**001**

version

last name

first name

signature

# Exam 1

McCord CHf301 . Summer 2016

(unique: 87165)

**REMEMBER: Bubble in ALL Bubblesheet information!**

This includes your first and last name, your UTEID, and your version number.

Please refer to the back of the bubble sheet for more data.

$$R = 8.314 \text{ J/mol K}$$

$$1 \text{ atm} = 760 \text{ torr} = 760 \text{ mm of Hg}$$

$$R = 0.08206 \text{ L atm/mol K}$$

$$1 \text{ atm} = 101325 \text{ Pa}$$

$$R = 0.08314 \text{ L bar/mol K}$$

$$1 \text{ atm} = 14.70 \text{ psi}$$

$$R = 62.36 \text{ L torr/mol K}$$

$$1 \text{ bar} = 100000 \text{ Pa}$$

$$g = 9.81 \text{ m/s}^2$$

$$N_A = 6.022 \times 10^{23}$$

density ( $\rho$ )

$$1 \text{ pound (lbs)} = 453.6 \text{ g}$$

$$\text{H}_2\text{O} (\ell) = 1.00 \text{ g/mL}$$

$$1 \text{ inch (in)} = 2.54 \text{ cm}$$

$$\text{Hg} (\ell) = 13.6 \text{ g/mL}$$

$$1 \text{ foot (ft)} = 12 \text{ in}$$

$$1 \text{ mile} = 5280 \text{ ft}$$

**NOTE:** Please keep your Exam copy intact (all pages still stapled). You must turn in your exam copy, plus your bubble sheet, and any scratch paper.