## SOB, Units 19, Form A-C

## Name \_\_\_\_\_

Period

*This is a Take Home Exam.* You may use your Notes, PowerPoint, or Text on this exam but NO help from human beings!

You MUST HAND WRITE THIS EXAM!! NO TYPED PAPERS WILL BE ACCEPTED!

SHOW YOUR METHOD OF SOLUTION, THE Hup, Two, Three, Four.

Be sure that your answers look reasonable!

## PV = nRT

Where P is the pressure in kPa V is the Volume in L n is the number of moles T is the temperature in K (C + 273°) R is the gas constant: 8.31 L•kPa/mol•K

1. Find the pressure when 2.00 mol of  $H_2$  are in a 10.0 L flask at 16.0°C.

2. When 15.0 g of N<sub>2</sub> react to form NH<sub>3</sub>, find how many liters of NH<sub>3</sub> are formed at STP.

When finished, please STAPLE this exam onto your papers and turn in on due date.