SOB, Units 19, Form I-L

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!

$\mathbf{PV} = \mathbf{nRT}$

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 ($C + 273^{\circ}$) R is the gas constant: 8.31 L•kPa/mol•K

1. Find the number of moles when 5.00 L of O₂ at 50.0 kPa are at 35.0°C.

2. At STP, 150.0 g of H₂ react to form NH₃, find how many liters of NH₃ are formed.

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