SOB, Units 19, Form D-H

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 <u>HAND WRITE</u> 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 volume when 2.00 mol of H_2 at 90.0 kPa are at 25.0^{o}C.

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2. At STP, 35.0 g of N_2 react to form NH_3, find how many liters of NH3 are formed.

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