BIOL2402 A&P II	Mini Worksheet	Name:		
Dr. Weis	Respiratory System	Due Date and Time:		
Hand written answers only, use the back or attach additional pages as needed.				

A. Draw with labels the histology of the respiratory exchange membrane & give its function.

B. Draw with labels the histology of the epithelial lining of the upper respiratory tract and give two functions.

C. Explain the following gas laws:

i. Boyle's Law	
ii. Dalton's Law	
iii Henry's Law	
and explain Ohm's Law	

D. Name the major/primary gas transport mechanism in the body for

Oxygen _____ Carbon Dioxide_____ Nitrogen_____

E. Name <u>ALL</u> the bones involved with the respiratory system

F. Describe the pathway of circulation naming <u>ALL</u> structures for the pulmonary circuit

G. Give the source, composition, and function of surfactant.

H. Name all the cartilages of the larynx, give their histological type, and two functions for this region.

I. Name four somatic motor nerves that control skeletal muscles of respiration.

J. Give the location of the respiratory centers in the brain and describe their functions

K. Write out the CO2 formula that relates to the bicarbonate-carbonic acid buffer and explain how CO2 relates to pH and H+

L. Explain how the respiratory system controls the acid/base balance in the body

M. Name two lung volumes and two lung capacities and the instrument used to measure.

N. Name and define the four (4) phases of respiration

O. Give the function of these areas and name a unique and different problem.

Area	Function	Unique Problem
Nasal Cavity		
Trachea		
Pleura		
Pharynx		
Alveoli		
Larynx		
Bronchiole		