MECHANISM OF BREATHING		
1. a) The movement of air into and out of the lungs i	s called	
b) The two phases of this movement are	and	
2. The respiratory centers are located in the brain, in	the and	
3. The respiratory muscles are:	•	
1) the external and internal	muscles, which are supplied by the	
nerves.		
2) the, which is supplied b		
4. Contractions of the respiratory muscles produce charge and alveoli to bring about ventilation.	ranges in within the bronchic	
5. Match each air pressure with the statements that a	pply to each.	
Use each letter once. Each answer line will ba		
1) Atmospheric pressure	A. The pressure in the bronchial tree and alveoli	
2) Intrapleural pressure	<ul><li>B. The pressure of the air around us</li><li>C. The pressure within the potential pleural space</li></ul>	
3) Intrapulmonic pressure	D. 760 mmHg at sea level	
	<ul> <li>E. Fluctuates below and above atmospheric pressure during breathing</li> </ul>	
	F. Always slightly below atmospheric pressure	
INHALATION (INSPIRATION)		
1. With respect to normal inhalation, number these of	events in proper sequence.	
1 The medulla generates mo		
The chest cavity is enlarge	ed in all directions.	
The diaphragm and extern		
Intrapulmonic pressure de		
	Motor impulses travel along the phrenic and intercostal nerves.	
	he parietal pleura, which expands the visceral pleura	
Air enters the lungs until	intrapulmonic pressure equals atmospheric pressure.	
	ore forceful of the respiratory	
muscles, which in turn would bring about greate		
The second as a second and a second as a s	-	

## **EXHALATION (EXPIRATION)**

With respect to no	rmal exhalation, number	these events in proper sequence.	
	Motor impulses from	m the medulla decrease.	
	The chest cavity be alveoli recoils.	comes smaller, and the elastic connective	tissue around the
-	Intrapulmonic press	sure rises above atmospheric pressure.	1
	The lungs are comp	pressed.	1
<u></u>	The diaphragm and	l external intercostal muscles relax.	
	Air is forced out of pressure.	the lungs until intrapulmonic pressure equ	uals atmospheric
. Normal exhalation	is considered a passive	process because it does not require the	7
	of the respiratory n	nuscles.	
. A forced exhalation	on requires contraction of	f the muscles to pu	ıll the ribs
	, or contraction of the	he muscles to com	press the abdominal
organs and push	the diaphragm		
EXCHANGE O	F GASES		
a) External respir	ation is the exchange of	gases between the air in the	and the
	in the pulmona		
b) Internal respiratissue fluid (ce		gases between the blood in the	and the
. The two respirate	ory gases are	and	
3. a) Inhaled air (th	e atmosphere) is approxi	imately % oxygen	and
	% CO <sub>2</sub> .		
b) Exhaled air is	approximately	% oxygen and	% CO <sub>2</sub> .
i. The value that is	used to express the cond	centration of O <sub>2</sub> and CO <sub>2</sub> in the air or in b	ody fluids is called
	and is abbreviated		,
	and is analeviated	•	