	MECHANISM OF BREATHING
	1 a) The movement of air into and out of the lungs is called (C) (1.41).
	b) The two phases of this movement are
	2. The respiratory centers are located in the brain, in the and
	TOOLS.
	3. The respiratory muscles are:
	1) the external and internal i
744,00	mnial nerves.
O O	2) the Olaphaam, which is supplied by the One nerves.
Day tro.	4. Contractions of the respiratory muscles produce changes in tree and alveoli to bring about ventilation.
7	5. Match each air pressure with the statements that apply to each.
	Use each letter once. Each answer line will have two correct letters.
	1) Atmospheric pressure A. The pressure in the bronchial tree and alveoli B. The pressure of the air around us
	2) Intrapleural pressure C. The pressure within the potential pleural space
	3) Intrapulmonic pressure D. 760 mmHg at sea level E. Fluctuates below and above atmospheric
	pressure during breathing
	F. Always slightly below atmospheric pressure
	INHALATION (INSPIRATION)
	1. With respect to normal inhalation, number these events in proper sequence.
	1 The medulla generates motor impulses.
	The chest cavity is enlarged in all directions.
	The diaphragm and external intercostal muscles contract.
	Intrapulmonic pressure decreases.
	2 Motor impulses travel along the phrenic and intercostal nerves.
	The chest wall expands the parietal pleura, which expands the visceral pleura which in turn expands the lungs.
	Air enters the lungs until intrapulmonic pressure equals atmospheric pressure.
(*) (*)	2. A deep breath (more than normal) requires a more forceful Of the respiratory
	muscles, which in turn would bring about greater expansion of the

EXHALATION (EXPIRATION)

. With	respect to normal exhalation, number these events in proper sequence.	
	1 Motor impulses from the medulla decrease.	
	The chest cavity becomes smaller, and the elastic connective tissue around the alveoli recoils.	
	Intrapulmonic pressure rises above atmospheric pressure.	
	The lungs are compressed.	
	The diaphragm and external intercostal muscles relax.	
	Air is forced out of the lungs until intrapulmonic pressure equals atmospheric pressure.	
. Norm	nal exhalation is considered a passive process because it does not require the	, , om
l. A for		how from
_OM	muscles to compress the abdomination of the	1
orgai	ns and push the diaphragm www.	
EXCH	lange of gases	A 1
	external respiration is the exchange of gases between the air in the all and the local in the pulmonary capillaries.	10
b) Ir ti	nternal respiration is the exchange of gases between the blood in the and t issue fluid (cells).	he
!. The	two respiratory gases are Oxygen and Covbondioxide	
	nhaled air (the atmosphere) is approximately % oxygen and % CO ₂ .	made.
b) E	Exhaled air is approximately % oxygen and % CO ₂ .	m.
i. The	value that is used to express the concentration of O_2 and CO_2 in the air or in body fluids is called and is abbreviated $Pressure$.	