Practice Questions Ch 11: (Respiratory Physiology) Updated 10/2/22

A. The intrapulmonary pressure is a B. The intrapleural pressure is always	pout intrapulmonary and intrapleural pressure is true? Ilways below atmospheric. Ilways greater than the intrapulmonary pressure. Ireater than the intrapleural pressure.	
D. the intrapleural pressure equals	the atmospheric pressure.	
2. Hemoglobin's affinity for oxygen is de	ecreased under	
A. acidosis.	D. increased body temperature.	
B. exposure to carbon monoxide.	E. All of these.	
C. acclimatization to high altitude.		
3. Hypoventilation can cause		
A. metabolic acidosis.	C. metabolic alkalosis.	
B. respiratory acidosis.	D. respiratory alkalosis.	
4. The chemoreceptors in the medulla a	are directly stimulated by decreased	
A. pH of arterial blood.	D. arterial O2	
B. pH of venous blood.	E. arterial CO2	
C. pH of CSF in the brain.	F. Both A & C	
5. The medulla will stimulate increased	minute ventilation (respiratory rate and depth) if	
A. blood pH drops after hypoventila	ition.	
B. blood pH drops after hyperventil	ation.	
C. blood pH increases after hypove		
D. blood pH increases after hyperventilation		
6. Which of the statements about partia	al pressure of carbon dioxide is true?	
A. It is higher in the alveoli than in t	·	
B. It is higher in the systemic arterio	•	
C. It is higher in the systemic veins		
D. It is higher in the pulmonary veir	·	
D. It is higher in the pullionary ven	is than in the pullionary arteries.	
7. The conducting zone contains all of t		
A. the primary bronchi.	C. the terminal bronchioles.	
B. the larynx.	D. the respiratory bronchioles.	
8. Inhalation and accumulation of partic	cles less than 6 mm (rock, glass, or coal dust) in size, over a long period of time,	
A. asthma.	C. cystic fibrosis.	
B. emphysema.	D. pulmonary fibrosis.	

9. During inspiration,

A. alveolar pressure exceeds atmospheric pressure.
C. the diaphragm relaxes.

B. transpulmonary pressure increases.

D. intrapulmonary pressure is below atmospheric pressure.

10. Formation of which type of hem	noglobin occurs from inh	aling carbon monoxide gas.
A. Methemoglobin	D. Hemoglobin A	
B. Carboxyhemoglobin	E. Hemoglobin S	
C. Hemoglobin F		
11. The tendency of the lungs to re	turn to their initial size a	fter stretching is
A. compliance.	C. surface tension.	
B. recoil.	D. None of the choi	ices are correct.
12. What condition is marked by an	accumulation of proteir	n-rich fluid in the lungs due to permeability changes triggered
by the inflammatory response to sy	stemic infection?	
A. emphysema		D. pneumothorax
B. chronic obstructive pulmonary disease (COPD)		E. acute respiratory distress syndrome (ARDS)
C. pulmonary fibrosis		
13 Formation of which type of hem	oglobin occurs from drin	ıking nitrate-contaminated water.
A. Methemoglobin	D. Hemoglobin A	
B. Carboxyhemoglobin	E. Hemoglobin S	
C. Hemoglobin F		
14. Quiet inspiration will thora	acic and lung volume and	d intrapulmonary pressure.
A. increase, increase	C. decrease, increas	se
B. increase, decrease	D. decrease, decrea	ase
15. Quiet exhalation will thora	acic and lung volume and	d intrapulmonary pressure.
A. increase, increase	C. decrease, increas	se
B. increase, decrease	D. decrease, decrea	ase

Ch 11. Answers:

- 1. C
- 2. E
- 3. B
- 4. C
- 5. A
- 6. C
- 0. C
- 7. D
- 8. D
- 9. D
- 10. B
- 11. B
- 12. E
- 13. A
- 14. B
- 15. C

How did you do?