

BY THE NAME OF ALLAH
QUESTION 4 PHYSIOLOGY
RESPIRATORY SYSTEM

1. Which activity below is not a respiratory event?
 - a- carbon dioxide is exchanged in the alveoli.
 - b- cells produce nitrogen by their metabolism.
 - c- gas exchange between tissues and the blood.
 - d- oxygen is exchanged in the alveoli.
 - e- pulmonary ventilation.

2. Type I alveolar cells
 - a- form the wall of the alveoli.
 - b- secrete pulmonary surfactant.
 - c- contract during expiration to force air out of the alveoli.
 - d- two of these answers.
 - e- all of these answers

3. In addition to gas exchange the respiratory system plays a key role in
 - a- enhancing venous return.
 - b- water and temperature balance.
 - c- body defense.
 - d- both (a) and (c) above.
 - e- all of these answers.

4. Which of the following is not a function of the respiratory system?
 - a- transports O₂ to the tissues
 - b- contributes to maintenance of normal acid-base balance
 - c- provides a route for heat and water elimination
 - d- enables speech, singing, and other vocalization
 - e- removes, modifies, activates, or inactivates various materials passing through the pulmonary circulation

5. The inspiratory muscles include the
- a- diaphragm and internal intercostal muscles.
 - b- diaphragm and external intercostal muscles.
 - c- diaphragm and abdominal muscles.
 - d- internal and external intercostal muscles.
 - e- none of these answers.
6. When the diaphragm contracts
- a- the volume of the thoracic cavity increases.
 - b- lung volume increases as the lungs are forced to expand.
 - c- both (a) and (b) above
 - d- the volume of the thoracic cavity decreases.
7. Normal expirations are brought on by
- a- contraction of the external intercostals.
 - b- contraction of the internal intercostals.
 - c- contraction of the diaphragm.
 - d- elastic recoil of inspiratory muscles.
 - e- elastic recoil of expiratory muscles.
8. regarding the respiratory system all of these statements are correct except :
- a- Both the respiratory system and the circulatory system are involved in the process of respiration.
 - b- The respiratory system is the only system involved with the exchange of gas between the cells of an organism and the external environment.
 - c- The respiratory system provides a route for water and heat elimination
 - d- The pleural cavity normally is not in direct communication with the lungs or atmosphere.
- 9- regarding the inspiration all of these statements are true except :
- a- quite Inspiration is always an active process
 - b- quite inspiration is always a passive process.
 - c- inspiration muscles is : diaphragm + external intercostal
 - d- external intercostal which help in inspiration directs from back to front.

10- regarding the expiration all of these statements are false except :

a- forceful expiration is always an active process

b- forceful expiration is always a passive process

c- expiratory group of muscles includes : diaphragm + internal intercostal

d- when the internal intercostal relaxes they decrease the thoracic cavity

11- During forceful expirations

a- the accessory expiratory muscles contract.

b- the internal intercostals contract.

c- the abdominal muscles contract.

d- the ribs are brought closer together.

e- all of these answers.

1	2	3	4	5	6	7	8	9	10	11
c	A	e	a	b	c	d	b	a	a	e

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