

## STUDY GUIDE

## Testing Your Recall

mmon cause, and

- 1. The nasal cavity is divided by the nasal septum into right and left
  - a. nares.
  - b. vestibules.
  - c. fossae.
  - d. choanae.
  - e. conchae.
- 2. The intrinsic laryngeal muscles regulate speech by rotating
  - a. the extrinsic laryngeal muscles.
  - b. the corniculate cartilages.
  - c. the arytenoid cartilages.
  - d. the hyoid bone.
  - e. the vocal cords.
- 3. The largest air passages that engage in gas exchange with the blood are
  - a. the respiratory bronchioles.
  - b. the terminal bronchioles.
  - c. the primary bronchi.
  - d. the alveolar ducts.
  - e. the alveoli.
- 4. Respiratory arrest would most likely result from a tumor of the
  - a. pons.
  - b. midbrain.
  - c. thalamus.
  - d. cerebellum.
  - e. medulla oblongata.
- 5. Which of these values would normally be the highest?
  - a. tidal volume
  - b. inspiratory reserve volume
  - c. expiratory reserve volume
  - d. residual volume
  - e. vital capacity

- 6. The \_\_\_\_\_ protects the lungs from injury by excessive inspiration.
  - a. pleura
  - b. rib cage
  - c. inflation reflex
  - d. Haldane effecte. Bohr effect
- 7. According to \_\_\_\_\_, the warming of air as it is inhaled helps to inflate the lungs.
  - a. Boyle's law
  - b. Charles's law
  - c. Dalton's law
  - d. the Bohr effect
  - e. the Haldane effect
- 8. Poor blood circulation causes \_\_\_\_\_ hypoxia.
  - a. ischemic
  - b. histotoxic
  - c. hemolytic
  - d. anemic
  - e. hypoxemic
- Most of the CO<sub>2</sub> that diffuses from the blood into an alveolus comes from
  - a. dissolved gas.
  - b. carbaminohemoglobin.
  - c. carboxyhemoglobin.
  - d. carbonic acid.
  - e. expired air.
- 10. The duration of an inspiration is set by
  - a. the pneumotaxic center.
  - b. the phrenic nerves.
  - c. the vagus nerves.
  - d. the I neurons.
  - e. the E neurons.

- 11. The superior opening into the larynx is guarded by a tissue flap called the \_\_\_\_
- 12. Within each lung, the airway forms a branching complex called the \_\_\_\_\_
- 13. The great alveolar cells secrete a phospholipid–protein mixture called
- 14. Intrapulmonary pressure must be lower than pressure for inspiration to occur.
- 15. \_\_\_\_\_ disorders reduce the speed of airflow through the airway.
- Some inhaled air does not participate in gas exchange because it fills the \_\_\_\_\_\_ of the respiratory tract.
- 17. Inspiration depends on the ease of pulmonary inflation, called \_\_\_\_\_\_, whereas expiration depends on \_\_\_\_\_ which causes pulmonary recoil.
- 18. Inspiration is caused by the firing of I neurons in the \_\_\_\_\_ of the medulla oblongata.
- 19. The matching of airflow to blood flow in any region of the lung is called \_\_\_\_\_.
- A blood pH > 7.45 is called \_\_\_\_\_ and can be caused by a CO<sub>2</sub> deficiency called