

Respiratory Quiz

- 1. The exchange of gases between blood and cells is called**
 - a. pulmonary ventilation
 - b. internal respiration
 - c. external respiration
 - d. cellular respiration

- 2. The nose serves all the following functions EXCEPT:**
 - a. as the initiator of the cough reflex
 - b. warming and humidifying the air
 - c. cleansing the air
 - d. as a passageway for air movement

- 3. Surface tension of the alveolar fluid is reduced by the presence of**
 - a. mucus
 - b. sebum
 - c. surfactant
 - d. water

- 4. When the diaphragm and external intercostals muscles contract, which of the following actions does NOT occur?**
 - a. air moves into the lung
 - b. the intrapleural pressure increases
 - c. the diaphragm moves inferiorly
 - d. the intrapulmonary pressure decreases

- 5. When we inhale**
 - a. alveolar pressure decreases and intrapleural pressure increases
 - b. both alveolar pressure and intrapleural pressure increase
 - c. both alveolar pressure and intrapleural pressure decrease
 - d. alveolar pressure increases and intrapleural pressure decreases

6. Which of the body systems listed below cooperate to supply O₂ to cells and eliminate CO₂?

- 1) digestive system
- 2) cardiovascular system
- 3) urinary system
- 4) respiratory system
- 5) endocrine system

- a. 3, 5
- b. 2, 4
- c. 1, 2
- d. 1, 2, 4

7. In the lungs

- a. P_{CO₂} in the alveoli is the same as that in the capillaries
- b. P_{O₂} in the alveoli is the same as that in the capillaries
- c. P_{CO₂} in the alveoli is higher than that in the capillaries
- d. P_{CO₂} in the alveoli is lower than that in the capillaries

8. As blood enters the systemic capillaries

- a. P_{O₂} in the blood is the same as P_{CO₂} in the tissues
- b. P_{O₂} in the blood is higher than that in the tissues
- c. P_{O₂} in the blood is lower than that in the tissues
- d. P_{O₂} in the blood is the same as that in the tissues

9. During swallowing, the glottis is covered by

- a. false vocal cord
- b. true vocal cord
- c. epiglottis
- d. Adam's apple

10. Which of the following describes a correct order of structures in the respiratory passageways?

- a. pharynx, trachea, larynx, bronchi, bronchioles
- b. larynx, pharynx, trachea, bronchioles, bronchi
- c. trachea, pharynx, larynx, bronchi, bronchioles
- d. pharynx, larynx, trachea, bronchi, bronchioles

11. The volume of air that can be exhaled after normal exhalation is the

- a. tidal volume
- b. residual volume
- c. inspiratory reserve volume
- d. expiratory reserve volume

12. The primary chemical stimulus for breathing is the concentration of

- a. carbon monoxide in the blood
- b. carbon dioxide in the blood
- c. oxygen in the blood
- d. carbonic acid in the blood

13. During internal and external respiration, gases move by

- a. osmosis
- b. active transport
- c. diffusion
- d. endocytosis

14. Most oxygen in the blood is transported

- a. as gas dissolved in plasma
- b. as oxyhemoglobin
- c. as carboxyhemoglobin
- d. as bicarbonate

Answers

1. b
2. a
3. c
4. b
5. c
6. b
7. d
8. b
9. c
10. d
11. d
12. b
13. c
14. b