

Module 15 Quiz: Respiratory System

Name: _____ Date: _____

Part A: Multiple Choice (7 points)

Choose the best answer for each question. (1 point each)

1. Gas exchange in the lungs occurs in the:
 2. A) Bronchi
 3. B) Trachea
 4. C) Alveoli
 5. D) Bronchioles

6. The diaphragm contracts and flattens during:
 7. A) Exhalation
 8. B) Inhalation
 9. C) Holding breath

10. D) Coughing

11. Most oxygen in the blood is transported by:
 12. A) Plasma
 13. B) White blood cells
 14. C) Hemoglobin

15. D) Platelets

16. The primary stimulus for breathing is:
 17. A) Low oxygen levels
 18. B) High carbon dioxide levels

19. C) Low carbon dioxide levels
20. D) High oxygen levels
21. Surfactant in the alveoli functions to:
22. A) Trap pathogens
23. B) Reduce surface tension
24. C) Increase mucus production
25. D) Warm incoming air
26. External respiration refers to:
27. A) Breathing movements
28. B) Gas exchange in alveoli
29. C) Cellular respiration
30. D) Gas exchange in tissues
31. The structure that prevents food from entering the trachea is the:
32. A) Larynx
33. B) Pharynx
34. C) Epiglottis
35. D) Bronchus

Part B: Free Response (3 points)

Answer each question in complete sentences.

1. (1 point) Describe the mechanics of inhalation, including the role of the diaphragm.

1. (1 point) Explain how oxygen and carbon dioxide are transported in the blood.

1. (1 point) How is breathing regulated? What happens when CO₂ levels increase?
