

- 1) The most abundant proteins in blood plasma are C
A) globulins.
B) transport proteins.
C) albumins.
D) lipoproteins.
E) fibrinogens.
- 2) Red blood cell production is regulated by the hormone C
A) thymosin.
B) angiotensin I.
C) erythropoietin.
D) M-CSF.
E) cobalamin.
- 3) If the partial pressure of oxygen in both air and water is 100 mm Hg, then the concentration of the oxygen is the same in the air and water. B
A) True
B) False
- 4) The function of red blood cells is to C
A) remove carbon dioxide from the lungs.
B) remove nitrogenous wastes from active tissues.
C) carry oxygen from the lungs to the body's cells.
D) carry nutrients from the digestive system to the body's cells.
E) defend the body against infectious organisms.
- 5) The porphyrin ring of heme contains an atom of C
A) magnesium.
B) calcium.
C) iron.
D) sodium.
E) copper.
- 6) Red blood cell production increases when B
A) oxygen levels in the blood increase.
B) oxygen levels in the blood decrease.
C) carbon dioxide levels in the blood increase.
D) carbon dioxide levels in the blood decrease.
E) protein levels in the blood increase.
- 7) Most of the oxygen transported by the blood is D
A) in ionic form as solute in the plasma.
B) dissolved in plasma.
C) bound to a plasma protein.
D) bound to hemoglobin.
E) carried by white blood cells.

- 8) Which is NOT considered to be a primary function of the respiratory system? **A**
A) regulation of water balance
B) regulation of pH balance
C) protection against pathogens
D) vocalization
E) gas exchange
- 9) Alveolar ventilation refers to the **B**
A) movement of air into and out of the lungs.
B) movement of air into and out of the alveoli.
C) movement of dissolved gases from the alveoli to the blood.
D) movement of dissolved gases from the blood to the alveoli.
E) utilization of oxygen by alveolar cells to support metabolism.
- 10) The actual sites of gas exchange within the lungs are **D**
A) bronchioles.
B) alveolar ducts.
C) pleural spaces.
D) alveoli.
E) terminal sacs.
- 11) The lungs are enclosed in _____ membranes. **C**
A) pericardial
B) pulmonary
C) pleural
D) thoracic
E) costal
- 12) Boyle's law states that gas volume is **C**
A) directly proportional to pressure.
B) directly proportional to temperature.
C) inversely proportional to pressure.
D) inversely proportional to temperature.
E) None of the answers are correct.
- 13) Air moves into the lungs because **A**
A) the gas pressure in the lungs is less than outside pressure.
B) the volume of the lungs decreases with inspiration.
C) the thorax is muscular.
D) contraction of the diaphragm decreases the volume of the pleural cavity.
E) All of the answers are correct.
- 14) Total cross-sectional area _____ with each division of the airways. **A**
A) increases
B) decreases
C) does not change