Choose the correct answer from the following questions:

1) The hormone that regulates the rate of erythrocyte production is
called:
A) renin
B) vasopressin
C) erythropoietin
D) leukopoietin
2) Which one of the following formed elements is the most abundant:
A) platelets
B) leukocytes
C) erythrocytes
D) white blood cells
3) Blood cell formation is called and occurs within the bone
marrow.
A) hemolysis
B) heme
C) hematopoiesis
D) hemoglobin
E) hemostasis
4) The constant for the constant of the consta
4) The average functional lifespan of a red blood cell is:
A) the body's lifetime
B) 50-75 days
C) 100-120 days
D) one year
E) 20-30 days

Chapter 15: Page 234

- 5) There are an average of _____ white blood cells per cubic millimeter of whole blood.
 - A) 100-1000
 - B) 4000-11,000
 - C) 11,000-20,000
 - D) 50,000-100,000
 - E) 1 million-3 million
- 6) **True or false:** Erythropoietin is released to stimulate white blood cell production in response low levels of oxygen within the blood.
- 7) True or false: Leukocytes are more numerous in blood than erythrocytes.

Application Question:

Some people use chemicals known as barbiturates to reduce feelings of anxiety. Barbiturates cause hypoventilation, which is a reduced rate of breathing, because they decrease the activity of the parts of the brain responsible for our breathing. What do you suppose happens to the red blood count of a habitual user of barbiturates? Defend your answer.