

BIOS 110 Human Physiology
Exam #6 Possible Short Answer Questions

Chapter 15

1. List the five types of immunoglobulins (antibodies). Name a characteristic or function of each (Table 15.6).
2. Describe the events of local inflammation, including the cardinal signs of inflammation and causes of each sign (Figure 15.5).
3. Distinguish between innate and adaptive immunity and describe the properties of antigens (Table 15.5).
4. Distinguish between B and T lymphocytes in terms of their origins and immune functions (Table 15.4).
5. Define the term *histocompatibility antigens* and explain the importance of class-1 and class-2 MHC molecules in the function of T cells (Section 15.3; page 510 of textbook).
6. Describe the requirements for activation of helper T cells by macrophages. Explain how helper T cells promote the immunological defenses provided by killer T cells and by B cells (Figure 15.17 and 15.18).

Chapter 16

1. Describe the changes in the intrapulmonary and intrapleural pressures that occur during inspiration and use Boyle's law to explain the reasons for these changes (Section 16.2; bottom of page 536 and 537).
2. Describe the mechanisms (including muscles involved) of normal, quiet ventilation and forced ventilation (Table 16.2).
3. List and define lung volumes and capacities. Explain the role of pulmonary function tests in the diagnosis of restrictive and obstructive lung disorders (Table 16.3 and "Restrictive and Obstructive Disorders" on the top of page 543).
4. Describe the oxyhemoglobin dissociation curve. How does it explain the uptake of oxygen in the lungs and the release of oxygen in tissues? Name and describe the three factors that influence the affinity of hemoglobin for oxygen (Figure 16.33 and 16.34).
5. Explain the regulation of ventilation by the central nervous system and the effect of blood PCO₂ and pH on ventilation (bottom of page 555; and figure 16.28).
6. Using the equation for CO₂ + H₂O explain the acid base balance of the blood and the role of the respiratory system in maintaining that balance (Section 16.8, page 567, of the textbook).

Human Physiology Short Answer Questions

Xiang Xie



Human Physiology Short Answer Questions:

Adopting the Beat of Phrase: An Mental Symphony within **Human Physiology Short Answer Questions**

In a global consumed by displays and the ceaseless chatter of immediate communication, the melodic elegance and mental symphony developed by the prepared word frequently fade in to the background, eclipsed by the relentless noise and interruptions that permeate our lives. Nevertheless, situated within the pages of **Human Physiology Short Answer Questions** a marvelous fictional prize overflowing with organic emotions, lies an immersive symphony waiting to be embraced. Constructed by a wonderful musician of language, this captivating masterpiece conducts viewers on a psychological trip, well unraveling the concealed melodies and profound influence resonating within each carefully constructed phrase. Within the depths with this emotional analysis, we can discover the book is central harmonies, analyze their enthralling publishing type, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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