

*Answer the following questions by choosing the most correct answer and filling in your corresponding answer sheet. (1 point each)*

1. What is a band of connective tissue that attaches muscle to bone?
  - A. Ligament
  - B. Bursa
  - C. Epimysium
  - D. Tendon
  
2. Which of the following is an important function of the skeletal system?
  - A. Protection of the brain and soft organs
  - B. Storage of water
  - C. Regulation of acid-base balance
  - D. Integration of other systems
  
3. What do ligaments attach?
  - A. Muscle to muscle
  - B. Bone to bone
  - C. Muscle to bone
  - D. Nerve to bone
  
4. What do chondroblasts produce?
  - A. Ligaments
  - B. Cartilage
  - C. Bone tissue
  - D. Blood cells
  
5. What type of cartilage is associated with bone function and development?
  - A. Elastic cartilage
  - B. Fibrocartilage
  - C. Hyaline cartilage
  - D. Interstitial cartilage
  
6. Which of the following cell types is responsible for breaking down bone matrix?
  - A. Chondroclast
  - B. Osteoclast
  - C. Chondroblast
  - D. Osteoblast
  
7. What is the primary mineral in bone?
  - A. Sodium
  - B. Oxygen
  - C. Calcium
  - D. Potassium

8. What is the primary function of osteoblasts?
  - A. Prevent osteocytes from forming
  - B. Reabsorb bone along the epiphyseal plate
  - C. Inhibit bone growth
  - D. Lay down bone matrix
  
9. Which type of bone cells give rise to osteoblasts?
  - A. Osteochondral progenitor cells
  - B. Osteoblasts
  - C. Osteoclasts
  - D. Osteocytes
  
10. Which of the following best describes cancellous bone?
  - A. Very dense
  - B. Contains concentric lamellae
  - C. Contains interconnecting plates called trabeculae
  - D. Primary component of compact bone
  
11. Which of the following best describes osteons (Haversian systems)?
  - A. Found in spongy bone tissue
  - B. Lack concentric lamellae
  - C. Basic units in compact bone tissue
  - D. Avascular
  
12. What is the covering of the outer surface of bone?
  - A. Lamellae
  - B. Canaliculi
  - C. Periosteum
  - D. Trabeculae
  
13. In which type of bone would osteons (Haversian systems) be present?
  - A. Cancellous bone
  - B. Compact bone
  - C. Both cancellous & compact bone
  - D. Neither cancellous or compact bone
  
14. Where does appositional growth deposit a new layer of bone?
  - A. Secondary ossification center of the epiphyses
  - B. Interstitial areas
  - C. On cancellous but not compact bone
  - D. On the surface of the bone
  
15. Which of the following occurs when blood calcium levels are low?
  - A. Osteoclast activity increases
  - B. Bones produce more bone tissue
  - C. Osteoblast activity increases
  - D. Calcitonin secretion increases