

Study Guide for Module 4

1. Define the following terms:

- Osteoblast
- Osteocyte
- Osteoclast
- Hematoma
- Callus
- Anatomical position

2. What are the two substances that form a calcium phosphorus mineral, and what do they do to bones?

3. What do you often find in the spaces between trabeculae?

4. Define the following terms:

- Concentric lamellae
- Interstitial lamellae

5. What are canaliculi?

6. What are the reasons bones must be continually remodeled?

7. Why doesn't the epiphyseal plate get thicker as bone grows?

8. The epiphyseal plate separates the diaphysis from the epiphysis. What side of the plate does the tissue ossify?

9. What is appositional bone growth?

10. What is the purpose of the external callus?

11. What is the purpose of the internal callus?

12. Which glands secrete calcitonin?

13. Which glands secrete PTH (parathyroid hormone)?

14. Which glands secrete growth hormone?

15. What effect does growth hormone have on bone tissue?

16. What effect do sex hormones have on bone growth?

17. What are the three major types of joints in the body?

18. What is the purpose of the articular cartilage in a synovial joint?

19. What is the purpose of the synovial fluid in a synovial joint?

20. What produces synovial fluid?

21. List the six major types of synovial joints in order of decreasing range of motion.