

Chapter Seven Study Guide
Bone Tissue (W2025)

1. How is bone's matrix described? Explain. Significance?
2. Osseous tissue functions?
3. What is bone's functional unit? Draw and label picture?
4. Where is hyaline cartilage found in a long bone?
5. What two membranes are associated with a long bone?
6. What is the difference between the epiphyseal plate and the epiphyseal line? When does this transition occur?
7. What cells are generated by an osteogenic cell? Function of each. What bone cell is not formed by the osteogenic cell? Function?
8. What two conditions occur if there is an imbalance in the bone's matrix?
9. What is the name of the hard part of the osteon's matrix? Type of molecule? What is the flexible part of the osteon's matrix? Type of molecule?
10. What is the difference between compact and spongy bone? Which one is harder? What is the functional unit?
11. What is bone marrow? Color? Functions? Locations? Does relationship change over time? Explain
12. What two forms of bone development occur in fetal development? Explain type of bones formed by each.
13. What two forms of bone development occur in adults? What type of bone growth is associated with each type? How does this growth change over time?
14. On which side of the epiphyseal plate is new cartilage formed? By what type of cell? What occurs on the opposite side? By what type of cell?
15. What is Wolf's Law of the Bone? How does this law explain features on bones?
16. What are two forms of dwarfism?
17. What are the four stages of healing a bone fracture? Draw picture and label..
18. What is osteoporosis? What gender more likely to have this problem? When? Why? How may you delay or prevent this condition?