**Study Guide Chapter 5: Microscopic and Macroscopic**

**Bone Structure & Function Test**

Your test will consist of:

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| Written Portion |
| 20 Multiple Choice Questions (1pt each) | 6 Matching Questions(1pt each) | 6 Labeling Questions(1pt each) | 3 Short Answer Questions (10 points Total) |

Your grade will be recorded as the total number of points out of a possible 42 points.

In order to prepare for your test, you will need to use your textbook and your notes. Below is a list of concepts/topics that you need to review prior to the test.

1. Know the 5 functions of the skeletal system.
2. Be able to identify the structures found in bone including Haversian System/Osteon, Haversian Canal, Lamellae, Lacunae, Volkmann’s Canal, and Canaliculi.
3. Be able to describe the role/function of the structures found in bone including Haversian System/Osteon, Haversian Canal, Lamellae, Lacunae, Volkmann’s Canal, and Canaliculi.
4. Be able to characterize bones in the human body according to shape (flat, short, long or irregular)
5. Be able to identify the structures found in long bones including Spongy bone, Compact bone, Diaphysis, Epiphysis, Periosteum, Sharpey’s Fibers, Articular Cartilage, Epiphyseal Plate, Epiphyseal Line, and yellow marrow
6. Be able to describe the role/function of the structures found in long bone including Diaphysis, Epiphysis, Periosteum, Sharpey’s Fibers, Articular Cartilage, Epiphyseal Plate, Epiphyseal Line, medullary cavity, endosteum, red marrow and yellow marrow
7. Be able to describe the damage incurred in each common type of fracture we discussed (Simple/Closed, Compound/Open, Comminuted, Compression, Depressed, Impacted, Spiral, and Greenstick)
8. Know the characteristics and example locations of fibrous (sutures), cartilaginous (symphysis, discs) and synovial joints (plane, pivot, hinge, ball-and-socket, saddle, and condylar).
9. Be able to identify the 6 types of synovial joints (plane, pivot, hinge, ball-and-socket, saddle, and condylar) and characteristic locations.
10. Know the difference between spongy and compact bone and be able to identify each.
11. Know the 3 types of bones cells and their functions.
12. Be able to describe and identify anatomical movements (supination/pronation, flexion/extension, plantar flexion/dorsiflexion, abduction/adduction, circumduction, rotation, opposition, hyperextension, inversion, eversion)