

## ANATOMY 1<sup>ST</sup> SEMESTER REVIEW GUIDE

*To prepare for the 1<sup>st</sup> semester final, the following topics will need to be reviewed. The format of the test will be some multiple choice, some fill in the blank, and some short answer/essay questions that are indicated by an asterisk (\*). All questions have been taken from previous tests. Apart from the written portion of the test, you will also have 3 main lab practical portions of tissues, bones, and joints/x-rays. Use the practice lab practical link in LearnBPS to practice those. I will pick approximately 15 items from each unit to include on the test.*

### **Skeletal system**

Functions of skeletal system

\*Endochondral vs. intramembranous ossification

\*Cellular structures/functions of bone

Osteoblasts, -clasts, - cytes

Haversian canals

Lacunae

Canaliculi

Lamella

Bone structures (diagram)

Bone disorders

Joints and classifications

### **Muscular system**

Classifying muscle twitches

Muscular disorders/diseases

3 types of muscle tissue

Neuromuscular junction

Sarcomere and parts/regions

\*Full sequence of events involved in a muscular contraction

Type of contractions (isometric, isotonic, eccentric, concentric)

Muscles – name, origin, action, and insertion

\*Sarcomere components and their functions

### **Tissues**

\*Identify (by description) the 4 major types of tissues. Discuss differences.

Examples of tissue types

### **Integumentary system**

\*Functions and cells/tissues found within layers

\*Disorders: cause, symptoms, treatment

Exocrine glands (sweat, mammary, tear)

### **Blood**

WBC information – two of 5 types

Blood types – antigens/antibodies/compatibility