

BIO 5099
Homework Assignment #13

Name _____

Due start of class, **Tues November 26th**.

Late assignments are not accepted; show your work for partial credit.

Assignments may be e-mailed to: christiaan@xiaan.com or rbaror@dmibio.com anytime, or faxed to (303) 556-2889 between 3:00 and 4:00 p.m. on Tuesday.

Define **in your own words** and give an **example**:

1. (2pts) Stem Cell

2. (2pts) Axon

3. (2pts) Neurotransmitter

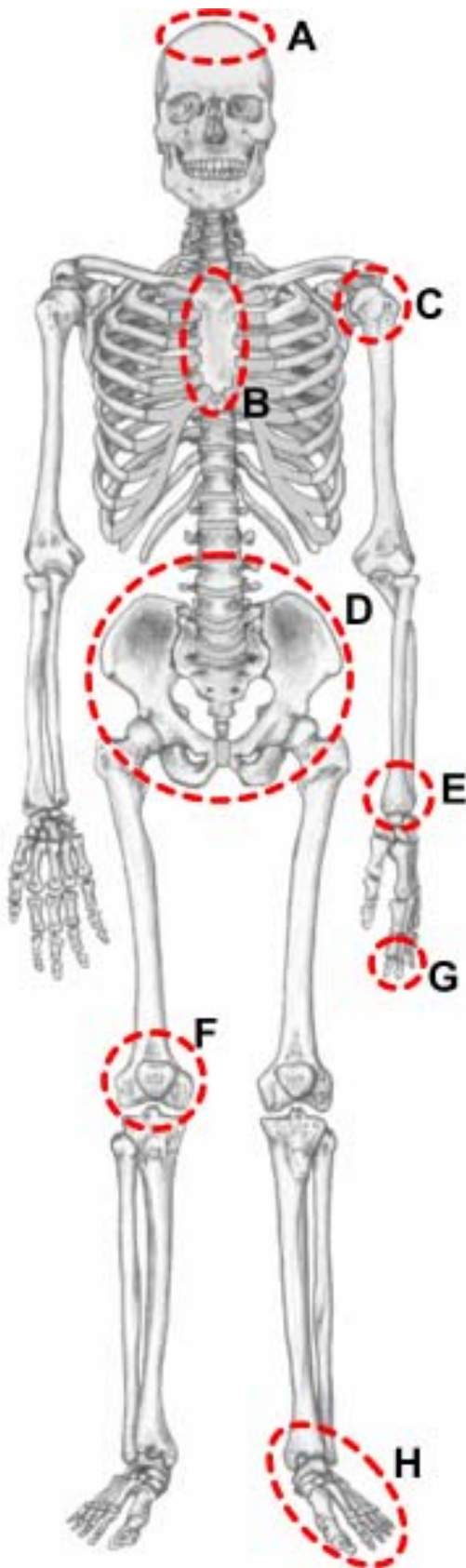
4. (2pts) Sympathetic nervous system

5. (2pts) Vein

6. (2pts) Arteriole

7. (12 pts) List the major organ systems of the human body and briefly describe 3 features of each

8. (8 pts) Describe each of the circled regions using the following words: Superior, Inferior, Anterior, Posterior, Medial, Lateral, Proximal, Distal, Dorsal, Ventral:



A. Circled region of skull with respect to the jaw

B. Sternum with respect to the thorax

C. The circled part of the humerus with to the whole bone

D. Pelvis with respect to the thorax

E. Circled part of the radius with respect to the whole bone and to the thorax

F. Circled part of the femur and the patella with respect to each other and to the thorax

G. Phalanges with respect to the whole hand

H. Foot with respect to the thorax

9. (8 pts) Describe how a signal is transmitted through a neural cell beginning with a neurotransmitter making contact with a dendrite and ending with a release of neurotransmitter into the synaptic gap.