

## **Practical I Review for Biology 2457, Human Anatomy and Physiology I Lab**

### **I. What to Expect:**

1. Exercises 1, 2, 4 (p. 39-44 only), 6A, 7, 8, 9, 10, 11, and 13  
Know all boldfaced terms. Some terms are similar – so be careful.  
Know the structures and functions.  
Focus on the assigned reading, figures, and tables – material will not be taken from the review sheets  
Check the omission sheets for items either not included or more specifically included.  
Be able to identify the right and left of the femur, humerus, tibia, coxa (pelvic girdle).
  
2. 2 Types of Multiple Choice Questions:
  - a. identification: given a model, picture, etc: what is it?
  - b. definition: importance, function etc.  
For these, you will need to know directional and landmark terms.  
You will also need to know how the body fits together – for instance, with what other bones does the femur articulate?
  
3. Timed Test:
  - a. 25 stations with 2 questions each: a total of 50 questions
  - b. 125 total points for the practical (125 points = 100%)
  - c. two rounds of looking at the questions
    1. first round: 1 minute at each station
    2. second round: 30 seconds at each station
    3. What to bring:
      - a. your ID
      - b. a pencil
      - c. an 882-E scantron
    4. Come to lab at least 5 minutes before the lab period for last minute instructions, etc.

### **II. Important Figures, Tables, etc. to know from the Lab Manual**

In parenthesis the number of each type question for each exercise is given.

1. Exercise 1 (2 id, 3 definition)  
Figures 1.1, 1.3a, 1.4, 1.6, and 1.7  
Anterior and Posterior Body Landmarks
  
2. Exercise 2 (2 definition)  
Table 2.1
  
3. Exercise 4 (2 id, 2 definition)  
Figures 4.2 and 4.3  
Table 4.1

4. Exercise 6A (5 id, 3 definition)  
Figure 6A1 and 6A2  
all pictures: structure/description and function
5. Exercise 7(3 id, 2 definition)  
Figure 7.1 and diagram  
Figure 7.2  
and Figure 23.1 (p. 356) Cutaneous Receptors
6. Exercise 8(1 id, 1 definition)  
Figure 8.1 and 8.2
7. Exercise 9(1 id, 2 definition)  
Figure 9.1  
Table 9.1  
Figure 9.3  
Figure 9.5
8. Exercise 10 (5 id, 2 definition)  
Figure 10.1, 10.2: Foramen magnum and Occipital Condyle only, 10.6  
omit bones from within eye socket and nasal area  
omit inferior portion of skull, except know the Foramen magnum and Occipital  
Condyle  
omit specific names of sutures  
Figure 10.10, 10.12, 10.14, 10.15, and 10.16  
Table 10.1
9. Exercise 11 (6 id, 2 definition)  
Figure 11.1, 11.2, 11.3, 11.4  
Figure 11.5: know carpals, metacarpals, and phalanges only  
Figure 11.6, 11.7, 11.8  
Figure 11.9a: know tarsals, metatarsals, and phalanges only
10. Exercise 13 (6 definition)  
Figure 13.1, 13.2, 13.3, 13.4, and 13.5  
Table 13.1

### **III. Other material on the practical**

All models and slides from the lab may be on the practical.

You will have 1 id from a slide.

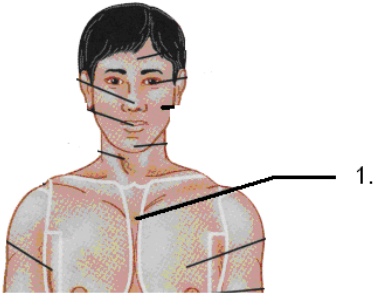
The cell and skin models will be on the practical.

The bone models will be placed in a particular position and you will not be allowed to move them for examination during the practical – you must know anterior and posterior views, etc.

The torso model will be on the practical for you to id an area of the abdominopelvic cavity.

The full skeleton model will also be on the practical.

#### IV. Sample Questions.



1. Identify the indicated body landmark.

- a. Frontal
- b. Sternal
- c. Thoracic
- d. Cervical
- e. Acromial

2. A projection that is sharp, slender, and often pointed.

- a. Spine
- b. Process
- c. Tubercle
- d. Crest
- e. Line

3. Major functions of this organ system include producing vitamin D and excreting salts and urea.

- a. Urinary
- b. Digestive
- c. Integumentary
- d. Lymphatic
- e. Endocrine

4. This bone and cartilage structure is immediately posterior to the thoracic cavity.

- a. the thoracic cage
- b. the vertebral column
- c. the sternum
- d. the diaphragm

5. Identify the indicated structure (#5 in the picture).

- a. Meissner's corpuscle
- b. Eccrine gland
- c. Pacinian corpuscle
- d. Sebaceous gland
- e. Hair follicle

