

Practical II Review for Biology 2457, Human Anatomy and Physiology I Lab
Spring 2008

I. What to Expect:

1. Exercises 14, 15, 16A, 17, 19, 21, 22, 23, 24, 25, 26
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.
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.
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
4. What to bring:
 - a. your ID
 - b. a pencil
 - c. an 882-E scantron
5. 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.

Exercise 14 (1 id, 4 definition)

Figures 14.1, 14.4, and 14.5

Exercise 15 (8 id, 0 definition)

Figures 15.2 and 15.3

Know muscles from Figures and Tables that are listed on the omission sheets

Exercise 16A (1 id, 2 definition)

Figures 16A.3 (p.241) and 16A.4 (p.242)

Exercise 17 (2 id, 3 definition)

Figures 17.1, 17.2, 17.3, 17.5, 17.6, and 17.7

Exercise 19 (5 id, 3 definition)

Figure 19.2, 19.3, 19.4, 19.11, 19.12, 19.13, and 19.14

Table 19.9

brain model

sheep brain dissection

Broca's area and Wernicke's area

Exercise 21 (1 id, 2 definition)

Figure 21.1a and 21.2

vertebrae and spinal nerve model

Exercise 22 (1 id, 2 definition)

Figures 22.1 and 22.2

Exercise 23 (1 id, 3 definition)

Figure 23.1

Exercise 24 (2 id, 3 definition)

Figures 24.1, 24.2, and 24.3 a and b and 24.4a

eye model

sheep eye dissection

Exercise 25 (1 id, 2 definition)

Figures 25.1 and 25.2

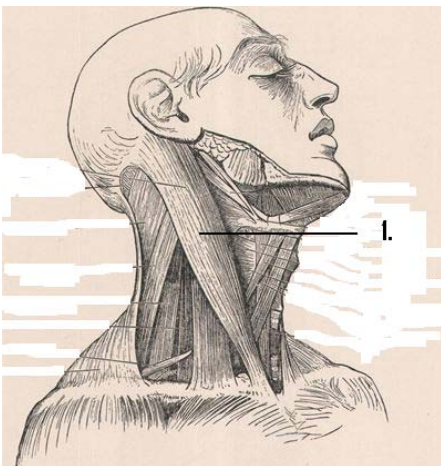
ear model

Exercise 26 (2 id, 1 definition)

Figures 26.1 and 26.2

III. Sample Questions.

1. Identify the indicated muscle.



- A. Sternocleidomastoid
- B. Masseter
- C. Temporalis
- D. Platysma
- E. Trapezius

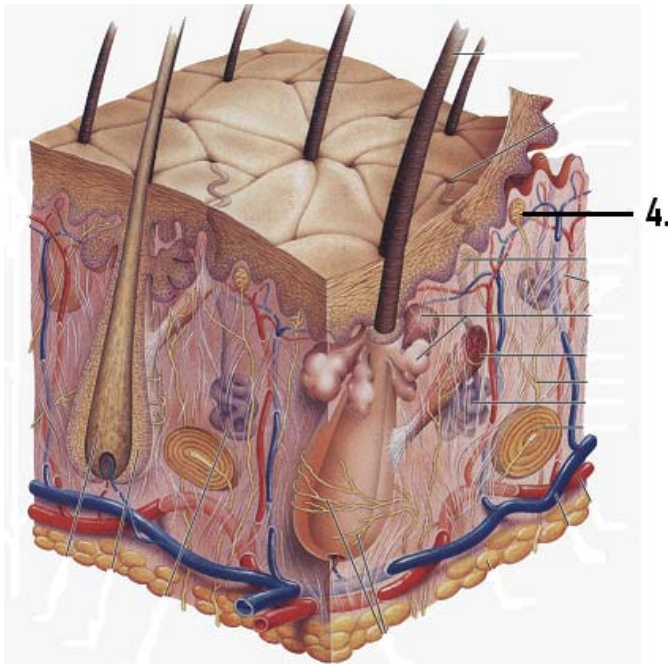
2. A sarcomere is

- A. a muscle group
- B. a neuromuscular junction
- C. a contractile unit of a muscle cell
- D. a fascicle surrounded by the epimysium
- E. an antagonist

3. A rapid, predictable, involuntary skeletal muscle response to a stimulus is a/an

- A. There is no such thing: skeletal muscles are voluntary.
- B. cutaneous reflex
- C. autonomic reflex
- D. visceral reflex
- E. somatic reflex

4. Identify the structure indicated on the diagram.



- A. Meissner's corpuscle
- B. Ruffini's corpuscle
- C. Pacinian corpuscle
- D. free nerve endings
- E. hair follicle receptor

5. Nissl bodies within the cell body are

- A. dark pigments that protect muscle cells from radiation
- B. darkly staining structures of rough endoplasmic reticulum involved in metabolism in neurons
- C. darkly staining cytoskeletal structures
- D. darkly staining nuclei in microglial cells
- E. darkly staining vesicles containing neurotransmitters

6. The two posterior projections of the gray matter of the spinal cord are

- A. the ventral horns carrying the axons of motor neurons
- B. the dorsal horns carrying interneurons and sensory fibers
- C. the lateral horns carrying both sensory and motor neuron fibers
- D. the ventral root carrying cell bodies of motor neurons
- E. the spinal nerves which is a fusion of the ventral and dorsal roots

Correct answers are:

- 1. A
- 2. C
- 3. E
- 4. A
- 5. B
- 6. B